

## SAE Vehicle Dynamics Technology Collection : Technical Papers

11th Annual SAE Brake Colloquium and Engineering Display

- 933070 Title: RTV—A friction material designers view  
933071 Title: Practical evaluation and FEM-modelling of a squealing disc brake  
933072 Title: Geometric induced instability in drum brakes

14th Annual Brake Colloquium and Engineering Display

- 962128 Title: Experimental analysis of low-frequency brake squeal noise  
  
962130 Title: Development of correlation between experimental and analytical modal analysis of brake pads

17th Annual Brake Colloquium and Engineering Display

- 1999-01-3400 Title: Disc brake corner system modeling and simulation  
Title: A proposal to predict the noise frequency of a disc brake based on the friction pair interface geometry  
1999-01-3403 Title: Global NVH matrix for brake noise—A Bosch proposal  
1999-01-3405 Title: Prediction of damping treatment dynamics as bonded to a brake shoe and lining  
1999-01-3407 Title: An experimental investigation of disk brake creep-groan in vehicles and brake dynamometer correlation  
1999-01-3408 Title: Calculation of average coefficient of friction during braking  
1999-01-3410

18th Annual Brake Colloquium and Engineering Display

- 2000-01-2753 Title: Dynamic modeling of brake friction coefficients  
2000-01-2760 Title: Ultra Q™ process  
2000-01-2763 Title: Cost-effective Aluminium MMC brake discs  
2000-01-2764 Title: Modal participation analysis for identifying brake squeal mechanism  
2000-01-2765 Title: On the analysis of brake squeal propensity using finite element method  
  
2000-01-2766 Title: The effect of distributed parameters examined in a model for simulation of disc brake squeal  
2000-01-2767 Title: Numerical simulation to detect low-frequency squeal propensity  
2000-01-2769 Title: Brake moan simulation using flexible methods in multibody dynamics  
2000-01-2770 Title: Generating 3-dimensional animations of vehicle brake noise  
2000-01-2771 Title: A visual experimental noise investigation of a twin calliper disc brake  
2000-01-2772 Title: New techniques and applications for 3D-brake vibration analysis  
  
2000-01-2773 Title: In-plane mode/friction process and their contribution to disc brake squeal at high frequency  
2000-01-2774 Title: The integrated test concept: Dyno - vehicle, performance - noise

2000-01-2775	Title: Thermomechanical analysis of friction brakes
2000-01-2778	Title: Experimental investigations of disc brake friction
18th Annual Earthmoving Industry Conference 670283	Title: Vehicle braking systems can be safer
2000 Future Car Congress 2000-01-1577	Title: Improving the aerodynamic stability of a practical, low-drag, aero-stable vehicle Title: An integrated study of the Ford PRODIGY aerodynamics using computational fluid dynamics with experimental support
2000-01-1578	Title: Numerical investigation of vehicles aerodynamics through driving tunnels
2000-01-1579	Title: Determination of wheel loader static and dynamic stability
22nd Annual Earthmoving Industry Conference 710526	Title: Stability analysis of an articulated vehicle steering system
710527	Title: Steering and braking systems on the articulated motor grader
710530	
22nd FISITA Congress 885106	Title: Anti-spin control
29th Annual Earthmoving Industry Conference 780462	Title: The development of a scraper suspension system
2nd International Conference on Vehicle Structural Mechanics 770594	Title: System modeling techniques to improve the ride and vibration isolation characteristics of heavy equipment
32nd Annual Earthmoving Industry Conference 810696	Title: Design considerations for wet wheel brakes
37th Annual Earthmoving Industry Conference 860770	Title: Ten years experience with brake testing of large mining trucks in British Columbia
39th Annual Earthmoving Industry Conference 880799	Title: Active suspension
3rd International Conference on Vehicle Structural Mechanics 790976	Title: A finite element solution for the coupled dynamic interaction behavior of a flexible vehicle traveling on a flexible guideway
3rd International Pacific Conference on Automotive Engineering 852326	Title: ABS—highly flexible modular system for commercial vehicles
852331	Title: Load and/or speed sensing power steering for medium and heavy trucks
852335	Title: Steering response of articulated vehicles in steady-state turns
852344	Title: Controlled load transfer during braking on a four-spring trailer suspension

852346	Title: Neway AR-90 trailer air suspension
852360	Title: Optimization of power steering "road feel" for highway tractors
48th Earthmoving Industry Conference and Exposition	
971562	Title: A hybrid approach to ground speed control of large wheel loaders with engine at full throttle
4th International Pacific Conference on Automotive Engineering	
871247	Title: New generation foundation brake developments
5th International Exposition on Vehicular Structural Mechanics	
840739	Title: Computer simulation of nonlinear vehicle response to generalized road inputs at Ford light truck
840746	Title: Pneumatic damping of vehicle tires to improve ride quality
8th Annual SAE Brake Colloquium and Educational Display	
901701	Title: Low speed plate brake tester
9th Annual SAE Brake Colloquium and Engineering Display	
912656	Title: Dynamical behaviour of the disc brake pad
Aerospace Technology Conference and Exposition	
901867	Title: Wind tunnel and track testing an ARCA race car
Aerotech'93	
932512	Title: Modelling aerodynamic problems using smoothened particle hydrodynamics (SPH)
Automobile Engineering Meeting	
760710	Title: The handling properties of light trucks
760711	Title: Cornering compliance applied to dynamics of rolling vehicles
760712	Title: The static directional stability and control of the automobile
760713	Title: The cornering compliance concept for description of vehicle directional control properties
Automotive and Transportation Technology Congress and Exhibition	
2001-01-3167	Title: Investigation of car stability in crash simulations
2001-01-3186	Title: Development of HILS system for ABS ECU of commercial vehicles
2001-01-3187	Title: Robust adaptive stabilization of moving a car under braking with ABS in control circuit
2001-01-3188	Title: Caravan active braking system—Effective stabilization of snaking of combination vehicles
2001-01-3189	Title: The kinetic brake booster
2001-01-3191	Title: Dynamometer simulation study for market brake judder

2001-01-3210	Title: Virtual proving ground environment for designing a roll-over detection and warning system
2001-01-3212	Title: Three-dimensional dynamic model for a quick simulation of vehicle collisions
2001-01-3244	Title: Adaptive cruise control system using CVT gear ratio control
2001-01-3245	Title:
2001-01-3266	Title: Polytopic dynamics and control for variable suspension system
2001-01-3269	Title: Hybrid control of a semi-active suspension system
2001-01-3306	Title: Semi-active steering wheel for steer-by-wire system
2001-01-3307	Title: Sliding mode path tracking control for automatic steering of vehicles
2001-01-3308	Title: Non-linear neuro control for active steering for various road conditions
2001-01-3321	Title: Advances and challenges in BBW AWB dispulsion for future automotive vehicles
2001-01-3323	Title: Robust controller design for automatic steering of vehicles
2001-01-3324	Title: A neural network approximation of nonlinear car model using Adams simulation results
	Title: A numerical model to analyze the dynamic response of a vehicle to variations in torque transmitted by the drive-line
2001-01-3334	
2001-01-3337	Title: Low tire pressure warning system using sensor fusion
2001-01-3338	Title: About interrelation between the tire grip properties and the wheel sliding
Automotive Engineering Congress and Exposition	
670006	Title: Engineering approach to truck-trailer train stability
670022	Title: Load-deflection characteristics of vehicle suspension systems
	Title: Development of Ford GT sports-racing car, covering engine, body, transaxle, fuel system, suspension, steering, and brakes
670065	
670070	Title: Ford Mark II GT sports car disc brake system
670099	Title: Directional control dynamics of automobile-travel trailer combinations
670100	Title: Aerodynamic characteristics of a car-trailer combination
680017	Title: Effect of recent changes in brake regulations on brake design
680018	Title: Development of Ford disc brake, which is power brake option on all 1968 Ford-built cars
680098	Title: Design of off-the-road vehicles for rough terrain environment
680120	Title: Climatic wind tunnel of Volkswagenwerk AG
680175	Title: Truck and bus brake system performance requirement (SAE J992)
680176	Title: Passenger-car brake system performance requirements (SAE J843a and SAE J937)

700035	Title: Automotive aerodynamic research over past 50 years in Germany, Great Britain, Italy, United States, and other countries
700112	Title: Adaptive antilock braking - a reality for air braked vehicles
700155	Title: Hybrid simulation of vehicle dynamics and subsystems
700173	Title: Further investigations in vehicle dynamics
710222	Title: Truck suspension system optimization
710223	Title: Dynamic performance of articulated highway vehicles - a review of the state-of-the-art Title: Hybrid computer simulation of the dynamic response of a vehicle with four-wheel adaptive brakes
710225	
710248	Title: Chrysler ""sure-brake"" - the first production four-wheel anti-skid system Title: Determination of the "ride transfer" characteristic for a stationary, transiently excited motor vehicle
710286	
710287	Title: Evaluation of the lateral stability of an automobile with nonlinear component to increasing magnitude gust and tire load Title: Comparison of world braking standards with reference to the development of Japanese braking standards
720030	
720031	Title: Design and development of hydraulic powered wheel slide protection system
720032	Title: Evaluation of use of automotive braking systems during 7300 mile cross-country trip
720100	Title: Nissan full-scale wind tunnel - its application to passenger car design
720105	Title: Evolution of an air suspension system for trucks
720106	Title: GMC astro aire rear suspension
720107	Title: Development of drive axle air suspension for highway tractors
740094	Title: Automatic braking by radar
740095	Title: Automotive radar brake
750064	Title: Correlation tests in a climatic wind-tunnel
750076	Title: Comparison of three types of front body construction of sub-compact cars
750078	Title: Use of dynamic modeling and analysis to cure ride quality problems
750115	Title: The role of vehicle handling in accident causation
750133	Title: Quantification of inputs for vehicle system analysis
750134	Title: Suspension system modeling and structural loading
750382	Title: The variable ratio master cylinder—a description of its function and operation
750404	Title: Radial ply tires—how different are they in the low lateral acceleration regime

750406	Title: Tire induced steering pull
760033	Title: Lateral forces of passenger tires and effects on vehicle response during dynamic steering
760183	Title: Analysis of vehicle suspensions with static and dynamic computer simulations
760185	Title: The optimization of body details—a method for reducing the aerodynamic drag of road vehicles
760186	Title: The body shape of minimum drag
760219	Title: Hydraulic brake system U.S. versus common market
760294	Title: One-third of a century of army interest in automotive hydraulic brake fluids
760296	Title: Race car brake development for NASCAR
760348	Title: Development and evaluation of anti-lock brake systems
760360	Title: Objective ride quality measurement
760369	Title: Heavy-duty truck suspensions
780009	Title: Using computer simulation to evaluate and improve vehicle handling
780050	Title: Active ride control—a logical step from static vehicle attitude control
780051	Title: A dry air, electronic-controlled leveling system for passenger cars and light trucks
780052	Title: Self-energizing hydropneumatic levelling systems
780265	Title: Aerodynamic improvements—a great potential for better fuel economy
780309	Title: Motorcycle dynamics—fact, fiction and folklore
780313	Title: Development of handling test procedures for motorcycles
780337	Title: Realistic effects of winds on the aerodynamic resistance of automobiles
780407	Title: A practical approach to cab suspension
780408	Title: A heavy truck cab suspension for improved ride
790001	Title: Front drive systems for four-wheel drive light trucks
790183	Title: The influence of drawbar flexibility and roll steer on the stability of articulated vehicles
790184	Title: Relative significance of parameters affecting lateral stability of articulated recreational vehicles
790185	Title: A simplified analysis of the steady-state turning of articulated vehicles
790188	Title: Off-road stability of recreational vehicles
790261	Title: Simulation of off-road motorcycle ride dynamics
790374	Title: Hydragas <sup>®</sup> suspension
790375	Title: Design and development of an independent rear suspension for the 1979 Cadillac Eldorado

790376	Title: Suspension parameter prediction using finite element analysis
790385	Title: The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance
790394	Title: Auto-adjusting leading/trailing shoe car drum brakes
790455	Title: Influence of antiskid systems on vehicle directional dynamics
790458	Title: Antiskid system for passenger cars with a digital electronic control unit
790478	Title: An optimal suspension for an automobile on a random road
800139	Title: Comparison tests between some full-scale European automotive wind tunnels —Pininfarina reference car
800140	Title: Comparison tests between major European automotive wind tunnels
800141	Title: Datsun 280ZX —integration of aerodynamics and appearance
800143	Title: Development and calibration of an aerodynamic disturbance test facility
800155	Title: Motorcycle braking test procedures and performance
800156	Title: A nonlinear study of the steady - state turning behavior of car - trailer systems
800157	Title: Development of maximum allowable hitch load boundaries for trailer towing
800158	Title: Comparison of the behavior of articulated recreational vehicles with either fixed or position control of steering
800161	Title: Effect of the normal force dependence of cornering stiffness on the lateral stability of recreational vehicles
800448	Title: Driving simulation —requirements, mechanization and application
800482	Title: Some abc's of air spring suspensions for commercial road vehicles
800520	Title: An optimal linear active suspension with finite road preview
800523	Title: Evaluation of the brake-force distribution and its influence on the braking performance of light commercial vehicles
800545	Title: Handling-characteristics simulations of car-trailer systems
Automotive Industry in Expanding Countries	
911705	Title: A statistical analysis of the variability of the braking efficiency of new, original equipment brake sets installed in the same vehicle
Autotechnologies Conference and Exposition	
870717	Title: Wind-tunnel modelling of commercial vehicle drag-reducing devices —three case studies
870724	Title: Cross wind stability of high performance road cars
870726	Title: Aerodynamic properties of Indy cars

890078	Title: Simulation of dynamic behavior of a four wheel steering vehicle by means of a vehicle and driver model
890080	Title: Handling properties of four-wheel steering vehicles
890081	Title: The case for an irreversible active suspension system
890082	Title: Volvo 760 GLE multi-link rear axle suspension
890083	Title: Active suspension—The Volvo experience
890084	Title: Braking performance of the hydrodynamic film brake
890089	Title: Design and evaluation of an adjustable automobile suspension
890090	Title: The evolution of suspensions—What hydraulics and electronics possibilities can bring
890091	Title: A new investigation tool for the dynamics of 4WD and 4WS cars
890095	Title: Basic developments of an active air suspension for passenger cars
890103	Title: Basic car tyre development principles
890107	Title: Tyre and vehicle dynamics laboratory
Conference and Exposition on Future Transportation Technology	
881133	Title: The design and development of a semi-active suspension for a military tank
Environment Sustainability Conference and Exhibition	
2001-01-3728	Title: Adaptation of the passenger car to the road conditions of third world countries
Farm, Construction and Industrial Machinery Meeting	
670738	Title: New suspension system for overhung tractor scrapers improves life and performance of machine
710708	Title: Hydrair II truck suspension
Fifth Autotechnologies Conference and Exposition	
910012	Title: Emergency braking dynamics of ground effects open-wheeled racing cars
910013	Title: Cooling and aerodynamics simultaneous optimization
910014	Title: Development of electric power steering
910015	Title: Joint force and moment analysis of a three-dimensional suspension mechanisms
910017	Title: Suspension analysis with instant screw axis theory
910019	Title: Development of a mobile tire test fixture and lateral force variations due to large camber angles
910021	Title: Modern automotive technology as exemplified by the Mercedes-Benz 300/500 SL
910023	Title: Vibration isolated cabin by active suspension—Requirements, concept, and first results
Fleet Week	



730653	Title: Tractor-semitrailer handling: a dynamic tractor suspension model
730688	Title: Analysis of lateral stability for doubles
740551	Title: Automatic stabilization of tractor jackknifing in tractor-semitrailer trucks
International Automobile Engineering and Manufacturing Meeting	
740945	Title: A technique for the validation of vehicle models using the road simulator
741039	Title: Some aspects of suspension and steering design for modern compact cars
741041	Title: Handling performance requirements of automobiles - discussed in the context of the VW Golf
741082	Title: Design considerations of adaptive brake control systems
741084	Title: Introduction of antilock braking systems for cars
741085	Title: The use of the computer in determining brake balance
741096	Title: A primer on nonlinear, steady-state vehicle turning behavior
741101	Title: A method for the evaluation of the lateral stability of vehicles and tires
741108	Title: Tire properties effects on passenger car handling
International Automobile Safety Conference	
700368	Title: Cornering ability analysis based on vehicle dynamics system
700369	Title: Effects of compliance on vehicle handling properties
700372	Title: Traction effects while cornering
700373	Title: Brake system component dynamic performance measurement and analysis
International Automotive Engineering Congress and Exposition	
690096	Title: History of tandem suspensions for trucks
690099	Title: Mathematical and empirical study of truck ride
690150	Title: On the prediction of off-road vehicle system mobility
690152	Title: The air-cell suspension system—A solution to off-road mobility problems
690213	Title: Evolution of sure-track automotive braking system
690233	Title: Development of vehicle dynamics by means of a digital computer
690234	Title: Considerations in determining vehicle handling requirements
690260	Title: Technological development directing the path to fully automatic vehicle control systems
730039	Title: The truck steering system from hand wheel to road wheel
730079	Title: Handling characteristics of the General Motors experimental safety vehicle
730080	Title: ESV dynamic performance
730081	Title: Development of the brake system for the General Motors experimental safety vehicle

730166	Title: Vehicle attitude control methods
730234	Title: Aerodynamic disturbances encountered in highway passing situations
770051	Title: Dynamic analysis of a three-dimensional vehicle model undergoing large deflections
770052	Title: Non-linear model formulation for the static and dynamic analyses of front suspensions
770053	Title: Simulation of a vehicle suspension with the ADAMS computer program
770097	Title: Brake system design for medium/heavy trucks to meet FMVSS 105-75 stopping distance requirements
770177	Title: Experimental and theoretical analysis on independent rear suspension and body structure to reduce interior noise
770184	Title: Development of a lightweight small car disc brake system for international usage
770265	Title: Results from a collisions avoidance radar braking system investigation
International Body Engineering Conference and Exposition	
2000-01-2668	Title: A review of the state-of-the-art of angular rate sensors
2000-01-2669	Title: Influences of parameters at vehicle rollover
International Conference on Automotive Electronics	
780856	Title: Electronic braking system
International Conference on Vehicle Structural Mechanics	
880883	Title: Real-time dynamics simulation—A design optimization tool
880986	Title: Reliability of Daimler-Benz/WABCO anti-lock systems—Five years of experience after production began
880987	Title: Practical considerations of North American heavy vehicle air brake antilock systems
International Congress on Transportation Electronics	
861033	Title: Traction control (ASR) an extension of the anti-lock braking system (ABS)
861038	Title: Automatic electronic steering —a new approach
901167	Title: 4WS technology and the prospects for improvement of vehicle dynamics
901177	Title: Antilock braking systems (ABS) for commercial vehicles—Status 1990 and future prospects
International Mid-Year Meeting	
710361	Title: Research in automobile dynamics - a computer simulation of general three-dimensional motions
710615	Title: GKN Ferguson formula all-wheel control system
International Pacific Conference on Automotive Engineering and High Temperature Engineering Conference	

931878 Title: An advanced braking and stability controller for tow-vehicle and trailer combinations  
Title: The experimental and simulational analysis on drum brake squeal by structurally closed-loop coupling model

931879

931880 Title: Excitation and transfer mechanism of brake judder

931881 Title: Dynamic modelling of an automatic brake locking system

931894 Title: Identification of vehicle dynamics under lateral wind disturbance using autoregressive model

931909 Title: An automated implementation of the ""Magic Formula"" concept

931910 Title: Analysis on wandering phenomenon of vehicles influenced by damaged road cross profiles

931911 Title: Design method of test road profile for vehicle accelerated durability test

931912 Title: Development of multi-use road simulator

931913 Title: A three-dimensional tire model for steady-state simulations of vehicles

931914 Title: Design of two-wheel steer vehicle using optimal control algorithm of four wheel steer

931915 Title: Optimal four-wheel steering strategy using nonlinear analytical vehicle models

931917 Title: Cruise control system using adaptive control theory

931918 Title: Vibration analysis of the steering wheel of a passenger car due to the tire nonuniformity

931919 Title: Design and analysis of multi-axle steering system of heavy- duty vehicle

931922 Title: Safety study of intervehicle headway for vehicle longitudinal control system

931952 Title: Dynamic stability of a medium duty truck depending upon the location of a heavy object

931966 Title: Experimental validation of a half-vehicle suspension model

931969 Title: Neuro controlled active suspension with preview for ride comfort

931970 Title: Driving performance of a commercial vehicle with adaptive suspensions

931971 Title: Development of a hydraulic active suspension

931974 Title: Development of interactive dynamic simulation method for evaluating truck ride

931976 Title: Modeling of rollover sequences

931979 Title: Vehicle stability considerations with automatic and four wheel steering systems

932008 Title: Tire roller contact model for simulation of vehicle vibration input

932016 Title: Development of a test rig for evaluation of a motorcycle disc brake performance

811399	Title: A study on drum-brake noise of heavy duty vehicle
International West Coast Meeting	
770662	Title: Tandem anti-lock systems for air braked vehicles
770667	Title: Truck disc brakes—practice makes perfect
770668	Title: The Girling "Twinstop" brake
770673	Title: The design concept of an integral power steering system for heavy duty trucks
	Title: The use of small scale wind tunnel data in the design of cab-over-engine tractor/trailer combinations
790767	
790768	Title: Kenworth Airglide 100 rear suspension
IX International Conference on Vehicle Structural Mechanics and CAE	
951095	Title: Friction induced vibration: brake moan
951116	Title: Modeling the cooling of an automotive brake rotor
Mid-Year Meeting	
670192	Title: Analytical prediction of vehicle handling behavior
670476	Title: Vehicle stability studied with a nonlinear 7-deg model
670505	Title: Trends in braking techniques used with European vehicles
680472	Title: Design of a shock absorber to improve vehicle riding comfort by reducing jerk
	Title: On the vehicle dynamic response to the steering control - experimental evaluation of the response and analytical approach to the design of the performance with 7-deg-of-freedom model
690488	
690489	Title: Suspension and steering of the 1969 VW 411 model
690527	Title: Effect of tractive force on directional stability and controllability of vehicles
700504	Title: 1970 Ford dual circuit air brake system
700505	Title: Dual circuit air brake control system
700515	Title: Highway vehicle stability in braking maneuvers
700516	Title: Applicability of braking control systems for highway vehicles
Mobility Technology Conferences and Exhibit	
	Title: Optimization of the steering and braking performance of commercial vehicles using electronic intelligence
921440	Title: Automotive vehicle chassis simulation for motion control studies using multibody systems (MB5) modelling techniques
921443	
921463	Title: The use of multi-body systems analysis in the design and analysis of vehicle suspension systems
921491	Title: Suspensions optimization

National Aeronautic and Space Engineering and Manufacturing Meeting	
700869	Title: International Harvester air suspension for single- and tandem-axle trucks
National Aeronautical and Space Engineering and Manufacturing Meeting	
710781	Title: Bond graph methods in structural dynamics
National Automobile Engineering Meeting	
720356	Title: Application of the parameter plane method to the handling of a vehicle under emergency conditions
720473	Title: New laboratory facility for measuring vehicle parameters affecting understeer and brake steer
720495	Title: Rollover testing
	Title: Evaluation of vehicle handling and stability by computer simulation at the first stage of vehicle planning
730525	
730526	Title: A computer simulation for three-dimensional vehicle dynamics
730535	Title: Hydraulic brake actuation systems for antilock systems and disc brakes
730591	Title: Handling and stability Volvo's experimental safety car
National Farm, Construction, Industrial Machinery, Powerplant Meeting	
720791	Title: Stabilization of a hydro mechanical steering system
720803	Title: Hydrostatic steering designed for large off-highway vehicles
National Fuels and Lubricants and Transportation Meetings	
700880	Title: Systems approach to heavy truck steering
700894	Title: Air ride truck suspension
National Truck Meeting and Exposition	
781064	Title: Analysis of the directional response characteristics of double tankers
781065	Title: Analysis of the rollover dynamics of double-bottom tankers
781067	Title: Ride comfort aspects of heavy truck design
781068	Title: Trend of Japanese truck, bus, and trailer brakes
791035	Title: Evolution of the new Ford light truck four wheel drive independent front suspension
791046	Title: Evaluation of the braking performance of a tractor-semitrailer equipped with two different types of anti-lock systems
801402	Title: Experimental shape research of ideal aerodynamic characteristics for industrial vehicles
801403	Title: The effect of tractor-trailer flow interaction on the drag and distribution of drag of tractor-trailer trucks

801404	Title: Aerodynamic drag reduction of intercity buses
	Title: Aerodynamic evaluations of the 1980 F-series light and medium trucks and the 1978 CL-9000 heavy truck
801405	
801418	Title: An assessment of ride quality of heavy-duty trucks
801419	Title: Optimum design of tractor-semitrailer suspension systems
801421	Title: Articulated vehicle dynamic analyses using equivalent linearization technique
National Truck Meeting and Truck Engineering Exposition	
770892	Title: The truck stabilizer, a means of preventing roll-over during braking and handling test situations
National West Coast Meeting	
670197	Title: Disc brakes used on American cars are of opposed-piston type
740604	Title: Design approaches to truck disc brakes
740628	Title: A study of motorcycle suspension damping characteristics
740630	Title: Antilock brake system application to a motorcycle front wheel
750702	Title: Development of devices to reduce the aerodynamic resistance of trucks
	Title: Comparisons of effectiveness of commercially available devices for the reduction of aerodynamic drag on tractor-trailers
750704	
750734	Title: Air wedge disc brakes for heavy truck front axles
SAE 2000 World Congress	
2000-01-0091	Title: The development of ACE for Discovery II
2000-01-0092	Title: Development of a new multi-link suspension
2000-01-0093	Title: Aerodynamics drives chassis design on Ferrari 360 Modena
2000-01-0094	Title: Torsion beam rear suspension with toe-controlled compliant hubs
	Title: A vibration transfer reduction technique, making use of the directivity of the force transmitted from road surface to tire
2000-01-0096	
2000-01-0102	Title: Electromechanical active suspension demonstration for off-road vehicles
2000-01-0104	Title: Development of hydraulic active suspension with feedforward and feedback design
2000-01-0105	Title: Prospects and aspects of an integrated chassis management ICM
2000-01-0107	Title: Closed-loop yaw control of vehicles using magneto-rheological dampers
2000-01-0108	Title: Improving the dynamic driving behavior of lightweight vehicles
2000-01-0109	Title: Development of a controlled braking strategy for vehicle adaptive cruise control
2000-01-0110	Title: Experimental approach for evaluating tire characteristics and ABS performance
2000-01-0114	Title: Vehicle dynamic simulations based on flexible and rigid multibody models

2000-01-0122	Title: Integration of interdisciplinary partial models into the dynamic vehicle simulation
2000-01-0126	Title: Vehicle design evaluation using the digital proving ground
2000-01-0129	Title: A CFD validation study for automotive aerodynamics
2000-01-0170	Title: A workload approach to the evaluation of vehicle handling characteristics
2000-01-0175	Title: Quality assurance of driver comfort for automatic transmissions
2000-01-0179	Title: Driver abilities in closed course testing
2000-01-0180	Title: Motorscooter braking control response study
2000-01-0288	Title: Validation and use of SIMULINK integrated, high fidelity, engine-in-vehicle simulation of the international class VI truck
2000-01-0289	Title: Hardware-in-the-loop, dynamometer based driver and vehicle simulator
2000-01-0303	Title: Utilization of ADAMS to predict tracked vehicle performance
2000-01-0322	Title: Design of hardware/algorithms for enhancement of driver-vehicle performance in inclement conditions using a virtual environment
2000-01-0350	Title: On-road and wind tunnel turbulence and its measurement using a four-hole dynamic probe ahead of several cars
2000-01-0351	Title: Wind-tunnel tests of vehicle cooling system performance at high blockage
2000-01-0352	Title: Prevention against Unsafe Transportation of Goods on Passenger Vehicle Roofs
2000-01-0353	Title: Rolling Road Technology for Automotive High Speed Testing
2000-01-0354	Title: Selecting automotive diffusers to maximise underbody downforce
2000-01-0355	Title: A flow visualization study of the aerodynamic interference between passenger cars
2000-01-0356	Title: An analytical tire model for vehicle simulation in normal driving conditions
2000-01-0357	Title: Modeling combined braking and steering tire forces
2000-01-0358	Title: A non-steady and non-linear tire model under large lateral slip condition
2000-01-0361	Title: Modeling of tire rolling properties by using experimental modal parameters
2000-01-0362	Title: A study on tire non-steady-state cornering characteristics using experimental modal parameters
2000-01-0438	Title: Brake system with double link-type variable ratio brake pedal
2000-01-0442	Title: Tool support for analyzing and optimization methods in early brake system sizing phases
2000-01-0443	Title: Development of a single-shoe leading-trailing drum brake—Code named Fuchsia
2000-01-0444	Title: Complex eigenvalue analysis for reducing low frequency brake squeal
2000-01-0445	Title: An analytical method to predict thermal distortion of a brake rotor
2000-01-0447	Title: Reducing high-frequency disc brake squeal by pad shape optimization

2000-01-0448	Title: Low-frequency drum brake noise investigation using a 1/4 vehicle test rig
2000-01-0484	Title: Advances in external-aero simulation of ground vehicles using the steady RANS equations
2000-01-0485	Title: On the underbody flow of a simplified estate
2000-01-0486	Title: Drag and dirt deposition mechanisms of external rear view mirrors and techniques used for optimisation
2000-01-0487	Title: CFD simulations and experimental measurements of the flow over a rotating wheel in a wheel arch
2000-01-0488	Title: Rapid aerodynamic development of two-volume vehicle shapes
2000-01-0489	Title: An experimental investigation of the flow over the rear end of a notchback automobile configuration
2000-01-0490	Title: Parametric study of wake structures and forces of rectangular bodies with radiused edges near a plane surface
2000-01-0491	Title: A new aerodynamic approach to advanced automobile basic shapes
2000-01-0492	Title: Numerical aerodynamic optimization of a low fuel consumption car body shape
2000-01-0556	Title: Delphi electronic throttle control systems for model year 2000; driver features, system security, and OEM benefits—ETC for the mass market
2000-01-0640	Title: Determination of seat sponge properties with estimated biodynamic model
2000-01-0641	Title: A seat ride evaluation method for transient vibrations
2000-01-0645	Title: Construction of a vibration simulation model for the transportation of wheelchair-bound passengers
2000-01-0646	Title: Estimation of occupied seat vibration transfer functions
2000-01-0693	Title: Fidelity of vehicle models using roll center principles
2000-01-0694	Title: Research on closed-loop comprehensive evaluation method of vehicle handling and stability
2000-01-0695	Title: A side-slip angle estimation using neural network for a wheeled vehicle
2000-01-0696	Title: Estimation of vehicle side slip angle and yaw rate
2000-01-0697	Title: Properties of passenger car tires with tread detachment
2000-01-0698	Title: The effect of tire characteristics on vehicle handling and stability
2000-01-0700	Title: Model validation of the 1997 Jeep Cherokee for the National Advanced Driving Simulator
2000-01-0702	Title: Vehicle driveability assessment using neural networks for development, calibration and quality tests
2000-01-0725	Title: An active vibration isolation system for vehicle seats



2000-01-0727	Title: System modeling of a damper module
2000-01-0731	Title: Disc brake intermittent squeal noise study using experimental techniques based systematic approach
2000-01-0811	Title: Correlation of hydraulic circuit dynamic simulation and vehicle
2000-01-0813	Title: Development of electric power steering (EPS) system with H(infinity) control
2000-01-0815	Title: A new EPS control strategy to improve steering wheel returnability
2000-01-0817	Title: Variable effort steering for vehicle stability enhancement using an electric power steering system
2000-01-0819	Title: Diagnostic development for an electric power steering system
2000-01-0821	Title: Optimizing variable ratio steering for improved on-center sensitivity and cornering control
2000-01-0822	Title: Future electrical steering systems: Realizations with safety requirements
2000-01-0823	Title: Steer-by-wire as a mechatronic implementation
2000-01-0832	Title: Simulation tool for transmission and driveline systems design
2000-01-0867	Title: Development of a small-scale aeroacoustic open jet, open return wind tunnel for cavity noise and component testing
2000-01-0868	Title: The Audi aeroacoustic wind tunnel: final design and first operational experience
2000-01-0869	Title: Wind tunnel pulsations and their active suppression
2000-01-0870	Title: Presentation of flow field investigation by PIV on a full-scale car in the Pininfarina wind tunnel
2000-01-0871	Title: A method of flow measurement about full-scale and model-scale vehicles
2000-01-0872	Title: The aerodynamic stability of a Le Mans prototype race car under off-design pitch conditions
2000-01-0873	Title: On CFD and transient flow in vehicle aerodynamics
2000-01-0874	Title: Wake surveys behind a passenger car subjected to a transient cross-wind gust
2000-01-0875	Title: A wind tunnel investigation of the transient aerodynamic effects on a four-car platoon during passing maneuvers
2000-01-0876	Title: Transient aerodynamic characteristics of simple vehicle shapes by the measurement of surface pressures
2000-01-1297	Title: Realtime driving simulation using a modular modeling methodology
2000-01-1352	Title: Safety evaluation results from the field operational test of an Intelligent Cruise Control (ICC) system
2000-01-1353	Title: Development of an adaptive cruise control system with brake actuation
2000-01-1375	Title: Development of a closed-loop, full-scale automotive climatic wind tunnel

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2001-01-0031	Title: A parametric model to generate subsystem constitutive laws for a vehicle ride model
2001-01-0034	Title: Development and implementation of simulation tool for vehicle brake system
2001-01-0035	Title: Contact mechanics simulation for hot spots investigation
2001-01-0039	Title: A numerical model for passenger car ride comfort studies
2001-01-0041	Title: Optimizing the effects of body attachment stiffness on steering column in- vehicle modes
2001-01-0128	Title: Rollover propensity evaluation of an SUV equipped with a TRW VSC system Title: Results from NHTSA's experimental examination of selected maneuvers that may induce on-road untripped, light vehicle rollover
2001-01-0131	Title: Passenger car stability under random wind excitation
2001-01-0133	
2001-01-0137	Title: Development of vehicle stability control system based on vehicle sideslip angle estimation
2001-01-0138	Title: Stability control of combination vehicle
2001-01-0139	Title: A validation study of vehicle dynamics simulations for heavy truck handling maneuvers Title: Parameter determination and vehicle dynamics modeling for the NADS of the 1998 Chevrolet Malibu
2001-01-0140	
2001-01-0141	Title: Model validation of the 1998 Chevrolet Malibu for the National Advanced Driving Simulator
2001-01-0167	Title: US and UK field rollover characteristics
2001-01-0335	Title: Web-based vehicle performance simulations using Microsoft Excel
2001-01-0357	Title: Research on a brake assist system with a preview function
2001-01-0384	Title: Dynamic ride quality investigation and DB of ride values for passenger and RV cars
2001-01-0386	Title: Heavy vehicle ride and driver comfort
2001-01-0388	Title: Development of the evaluating system for ride comfort and fatigue in vehicle
2001-01-0390	Title: A vehicle seat suspension with hybrid control system
2001-01-0475	Title: Test method for simulating vehicle rollover
2001-01-0479	Title: Hydraulic power steering system design and optimization simulation
2001-01-0480	Title: Design of lane-keeping control with steering torque input for a lane-keeping support system
2001-01-0481	Title: Objective evaluation method of on-center handling characteristics
2001-01-0482	Title: The effects of front suspension parameters on road wheel toe dynamics

2001-01-0483	Title: An Advanced Electrical Power Steering Motor
2001-01-0484	Title: A new electric current control strategy for EPS motors
2001-01-0485	Title: Modeling of mesh friction and mechanical efficiency of rack and pinion steering design Title: Analysis of self-excited vibration in hydraulic power steering system: Prevention against vibration by supply line
2001-01-0488	
2001-01-0490	Title: Front wheel vibrations: A hydraulic point of view—Models and first results
2001-01-0491	Title: Kinematics and compliance of sports utility vehicles
2001-01-0492	Title: Electromechanical suspension performance testing Title: New simulation method using experimental modal analysis for prediction of body deformation during operation
2001-01-0494	
2001-01-0497	Title: Development of L-shape coil spring to reduce a friction on the McPherson strut suspension system Title: Prediction of suspension fundamental mode frequency with extraction of dynamic properties of automotive shock absorbers and tire
2001-01-0498	
2001-01-0503	Title: SIMON: A new vehicle simulation model for vehicle design and safety research
2001-01-0594	Title: Mixed H-infinity and fuzzy logic controllers for the automobile ABS
2001-01-0595	Title: A model-based brake pressure estimation strategy for traction control system
2001-01-0596	Title: Comparison of control methods for electric vehicle antilock braking/traction control systems
2001-01-0598	Title: The development and testing of a prototype electromagnetic ABS for drum brakes Title: An investigation into fuzzy control for anti-lock braking system based on road autonomous identification
2001-01-0599	
2001-01-0602	Title: Wheel-slip regulation based on sliding mode approach
2001-01-0626	Title: Pressure-sensitive paint technology applied to low-speed automotive testing
2001-01-0629	Title: Hyundai full-scale aero-acoustic wind tunnel
2001-01-0630	Title: Coastdown/wind tunnel drag correlation and uncertainty analysis
2001-01-0631	Title: Effect of test section configuration on aerodynamic drag measurements
2001-01-0632	Title: Practical application of the two-variable blockage correction method to automobile shapes
2001-01-0700	Title: Integration of fluid flow modeling in the vehicles Renault development process
2001-01-0701	Title: On the calculation of external aerodynamics: Industrial benchmarks Title: Development of underbody aerodynamic simulation using automatically generated tetrahedral and prismatic cells
2001-01-0704	

2001-01-0745	Title: Dynamic wheel load measurements on real road surfaces—What accuracy to expect?
2001-01-0747	Title: New dynamic tire model in multi-body environment
2001-01-0748	Title: Tire modeling for misuse situations
2001-01-0751	Title: A study of tire lag property
2001-01-0753	Title: Improvement of hydroplaning performance based on water flow around tires
2001-01-0790	Title: Dynamic force measurement system (DFMS) for tires
2001-01-0792	Title: Inertia measurements of large military vehicles
2001-01-0793	Title: Rotating wheel torque meter with telemetric data transmission
	Title: Development of high-quality multi-axial sensing system (MASS) for direct measurement of 4 directional forces and coefficient of friction in real time
2001-01-0795	
2001-01-0796	Title: Virtual sensors of tire pressure and road friction
2001-01-0797	Title: Development of a lane-keeping support system
2001-01-0798	Title: Development of an adaptive cruise control system with stop-and-go capability
	Title: Estimation of road configuration and vehicle attitude by lane detection for a lane-keeping system
2001-01-0799	
	Title: Numerical study of brake disc cooling accounting for both aerodynamic drag force and cooling efficiency
2001-01-0948	
2001-01-0950	Title: Study on brake squeal by feed-in energy analysis
2001-01-1015	Title: Airflow parameters near the differential of a rear drive passenger car
2001-01-1040	Title: Time averaged and unsteady near-wake analysis of cars
	Title: Experimental and computational study of unsteady wake flow behind a bluff body with a drag reduction device
2001-01-1042	
	Title: Aerodynamics of vehicles through driving tunnels—Experimental study of interference and drag reduction
2001-01-1044	
2001-01-1060	Title: Robust vehicle stability controller based on multiple sliding mode control
2001-01-1064	Title: Sensor fusion for accurate computation of yaw rate and absolute velocity
2001-01-1086	Title: Effects of vehicle A-pillar shape on local mean and time-varying flow properties
2001-01-1098	Title: Road tests adopted to analyze cars' vibrational behavior
2001-01-1103	Title: Methodology for accelerating life tests on shock absorbers
2001-01-1149	Title: Transient solution of 2-D TEI problem using reduced order models
2001-01-1158	Title: Optimization methods for IRS axle mount design
	Title: The COANDA flow control and Newtonian concept approach to achieve drag reduction of passenger vehicle
2001-01-1267	

2001-01-1268	Title: Quantifying platoon fuel savings: 1999 field experiments
2001-01-1270	Title: Aerodynamic evaluation on Formula SAE vehicles
2001-01-1275	Title: A coordination approach for DYC and active front steering
2001-01-1276	Title: Research of driver assistance system for recovering vehicle stability from unstable states
2001-01-1280	Title: A generic suspension model for middle class passenger vehicles
2001-01-1281	Title: Relationships between pre-skidding and pre-braking speed
2001-01-1353	Title: The steering characterizing functions (SCFs) and their use in steering system specification, simulation, and synthesis
SAE 2002 World Congress	
2002-01-0036	Title: ULSAB-AVC—Overview and design
2002-01-0045	Title: ULSAB—Advanced vehicle concepts—Chassis and suspension
2002-01-0086	Title: Crosswind behavior in the driver's perspective
2002-01-0135	Title: A sensor and process fault detection system for vehicle suspension systems
2002-01-0252	Title: The driveability test facility wind tunnel No. 8
2002-01-0266	Title: The BRAKE project—Centralized versus distributed redundancy for brake-by-wire systems
2002-01-0267	Title: Open-interface definitions for automotive systems application to a brake-by-wire system
2002-01-0279	Title: Kinematics of a double A-Arm suspension, using Euler orientation variables
2002-01-0281	Title: Kinematic suspension linkages—A model for their behavior and a procedure for their design
2002-01-0282	Title: Experimental comparison of losses for conventional passive and energy efficient active suspension systems
2002-01-0300	Title: Development of electronically controlled brake system for hybrid vehicle
2002-01-0301	Title: Reference input wheel slip tracking using sliding mode control
2002-01-0302	Title: A predictive control algorithm for an anti-lock braking system
2002-01-0304	Title: Performance of anti-lock braking-system-equipped passenger vehicles—Part I: Braking as a function of brake pedal application force
2002-01-0306	Title: Performance of anti-lock braking-system-equipped passenger vehicles—Part III: Braking as a function of tire inflation pressure
2002-01-0307	Title: Performance of anti-lock braking system equipped passenger vehicles—Part II: Braking as a function of initial vehicle speed in braking maneuver
2002-01-0316	Title: Coiling profile estimation with compensation for setting deformation

2002-01-0317	Title: The effect of rubber seats on coil spring force line
2002-01-0318	Title: New technology of manufacturing for coil springs used in automotive suspensions
2002-01-0319	Title: The influence of damper properties on vehicle dynamic behavior
2002-01-0320	Title: Test and simulation of nonlinear dynamic response for the twin-tube hydraulic shock absorber
2002-01-0403	Title: Decision making for collision avoidance systems
2002-01-0553	Title: Single vehicle wet road loss of control; effects of tire tread depth and placement
2002-01-0559	Title: A simulation model for vehicle braking systems fitted with ABS
2002-01-0567	Title: Lap time simulation for racing car design
2002-01-0571	Title: Development and evaluation of a numerical simulation strategy designed to support the early stages of the aerodynamic development process
2002-01-0581	Title: Accurate shock absorber load modelling in an all-terrain vehicle using black box neural network techniques
2002-01-0617	Title: Application of bond graph technique and computer simulation to the design of passenger car steering system
2002-01-0618	Title: An EPS control strategy to improve steering maneuverability on slippery roads
2002-01-0619	Title: Vehicle dynamics simulation with inclusion of freeplay and dry friction in steering system
2002-01-0620	Title: The stability analysis of steering and suspension parameters on hands-free motion
2002-01-0656	Title: Fatigue design of automotive suspension coil springs
2002-01-0674	Title: Independent trailer suspension utilizing unique ADI bracket
2002-01-0675	Title: Titanium suspension springs—An update
2002-01-0677	Title: CAE methodologies for virtual prototyping of cast aluminum suspension components
2002-01-0693	Title: A dynamic test procedure for evaluation of tripped rollover crashes
2002-01-0694	Title: Comparison of the controlled rollover impact system (CRIS) with the J2114 rollover dolly
2002-01-0778	Title: Automotive seat suspension model for ride quality studies
2002-01-0779	Title: Predicting ride comfort on seat using explicit FEM code
2002-01-0782	Title: DSS, the driver stability system of Visteon
2002-01-0804	Title: Damper tuning with the use of a seven post shaker rig
2002-01-0805	Title: Road load data estimation on multiaxial test rigs for exhaust system vibrations
2002-01-0809	Title: Analysis of a 4-DOF vehicle model using bond graph and Lagrangian technique

2002-01-0815	Title: Modelling vehicle dynamics for virtual experimentation, road test supporting and dynamic control
2002-01-0816	Title: Application of HIL simulations for the development of vehicle stability assist system
2002-01-0817	Title: Lane change maneuver modelling for accident reconstruction applications
2002-01-0821	Title: IVMC: Intelligent vehicle motion control
2002-01-0922	Title: Modal coupling and its effect on brake squeal
2002-01-0927	Title: Analysis of brake caliper seal-groove design
2002-01-0942	Title: A comparison of rollover characteristics for passenger cars, light-duty trucks and sport utility vehicles
2002-01-0965	Title: Rollover stability index including effects of suspension design
2002-01-0967	Title: Influence of active chassis systems on vehicle propensity to maneuver-induced rollovers
2002-01-0968	Title: Improving performance of a 6x6 off-road vehicle through individual wheel control
2002-01-0969	Title: Estimation of side slip angle using measured tire forces
2002-01-0981	Title: A nonlinear sliding mode controller for active suspension system
2002-01-0983	Title: An investigation to controller design for active vehicle suspension by using GA-based PID and fuzzy logic
2002-01-0985	Title: Semi-active twin-accumulator suspension system
2002-01-0986	Title: Dual purpose fuzzy logic controller for an active suspension system
2002-01-0988	Title: Improved differential function for avoiding slippage of motor vehicles in a muddy trench
2002-01-0989	Title: Dynamic simulation and characteristics analysis for a light bus based on a detailed multi-body model
2002-01-1042	Title: Development of a 4WD system for SUVs
2002-01-1046	Title: An evaluation of torque bias and efficiency of Torsen differential
2002-01-1047	Title: Understanding the interaction between passive four-wheel drive and stability control systems
2002-01-1071	Title: On-board doppler sensor for absolute speed measurement in automotive applications
2002-01-1078	Title: Considerations to improve battery life in direct tire pressure monitoring
2002-01-1126	Title: Identification of subjective-objective vehicle handling links using neural networks for the foresight vehicle

2002-01-1178	Title: Real-time, distributed, unmanned ground vehicle dynamics and mobility simulation
2002-01-1181	Title: Vehicle-road-tire interaction in potential dangerous situations: Results of VERT project
2002-01-1182	Title: The relative sensitivity of size and operational conditions on basic tire maneuvering properties
2002-01-1183	Title: Estimation of tire-road friction using tire vibration model
2002-01-1184	Title: Real-time 7 DOF vehicle dynamics model and its experimental verification
2002-01-1192	Title: Experimental and numerical modelling of friction-induced noise in disc brakes
2002-01-1198	Title: Estimation of friction levels between tire and road
2002-01-1200	Title: A new model for rolling resistance of pneumatic tires
2002-01-1202	Title: Simulation of the experimental proof out of wheels and hubs
2002-01-1214	Title: On lateral dynamics control of commercial three-axle vehicle by front and rear wheels steering
2002-01-1216	Title: Development of 4WS control algorithm for a SUV
2002-01-1217	Title: Enhanced vehicle stability with engine drag control
2002-01-1218	Title: The complex cornering compliance theory and its application to vehicle dynamics characteristics
2002-01-1219	Title: Modelling road vehicle dynamics with Modelica
2002-01-1220	Title: Use of fuzzy logic in wheel slip assignment—Part II: Yaw rate control with sideslip angle limitation
2002-01-1221	Title: Use of fuzzy logic in wheel slip assignment—Part I: Yaw rate control
2002-01-1222	Title: Collaborative driving simulation
2002-01-1223	Title: Propagation of error applied to linear vehicle dynamics
2002-01-1236	Title: A new measurement method for quantifying the ride comfort
2002-01-1237	Title: Application of tire/road noise in tire design
2002-01-1250	Title: Indirect tire pressure monitoring using sensor fusion
2002-01-1280	Title: Brake dynamometer measurement of airborne brake wear debris
2002-01-1297	Title: Validation of CFD commercial codes for vehicle design and development
2002-01-1308	Title: Tire pressure monitoring systems and the automotive assembly process
SAE Automotive Dynamics and Stability Conference	
2000-01-1616	Title: Utilizing a genetic algorithm to optimize vehicle simulation trajectories: Determining initial velocity of a vehicle in yaw
2000-01-1617	Title: Optimization of front bump steer using design of experiments



2000-01-1618	Title: An optimal design software for vehicle suspension systems
2000-01-1619	Title: Design of front wheel active steering for improved vehicle handling and stability
2000-01-1620	Title: Vehicle and tire modeling for dynamic analysis and real-time simulation
2000-01-1621	Title: Non-linear analysis of vehicle dynamics (NAVDyn): A reduced order model for vehicle handling analysis
2000-01-1622	Title: Dynamics simulation research on rigid-elastic coupling system of car suspension
2000-01-1624	Title: MRA vehicle dynamics simulation-Matlab®/Simulink®
2000-01-1625	Title: Accurate models for complex vehicle components using empirical methods
2000-01-1626	Title: Steering and suspension test and analysis
2000-01-1627	Title: An automatic vehicle controller for stability and handling tests
2000-01-1628	Title: Development of an expert system for the analysis of track test data
2000-01-1629	Title: A simple and efficient description of car body movements for use in virtual prototyping and ride comfort evaluation.
2000-01-1630	Title: Improving the ride & handling qualities of a passenger car via modification of its rear suspension mechanism
2000-01-1631	Title: Analysis and design of limited bandwidth active hydropneumatic vehicle suspension systems
2000-01-1632	Title: Elimination of roll, squat, and dive through biased suspension response
2000-01-1633	Title: Bosch ESP systems: 5 years of experience
2000-01-1634	Title: Using mfeedforward for vehicle stability enhancement
2000-01-1635	Title: A model-based failsafe system for the Continental TEVES Electronic- Stability-Program (ESP)
2000-01-1636	Title: Development of active-traction control system
2000-01-1637	Title: Structural synthesizing of intellectual systems of automobile active safety
2000-01-1638	Title: Feedback linearization control for electronically controllable clutch of vehicle
2000-01-1639	Title: A new sliding mode controller for four-wheel anti-lock braking system (ABS)
2000-01-1640	Title: A new method for determining tire traction on ice
2000-01-1641	Title: Vehicle rollover testing—Methodologies in recreating rollover collisions
2000-01-1642	Title: A study in rollover prevention using anti-rollover braking
2000-01-1644	Title: Analysis of vehicle response data measured during severe maneuvers
2000-01-1645	Title: The effect of tire stiffness parameters on medium-duty truck handling
2000-01-1646	Title: Investigation of a roll control system for an off-road vehicle
2000-01-1647	Title: Fundamental physics behind new suspension concept for automobiles
2000-01-1649	Title: Friction-induced rollover from lift-off to launch

2000-01-1650	Title: Analysis of vehicle tip stability in side impact tests
2000-01-1651	Title: Development of an automotive rollover sensor
2002-01-1565	Title: Chassis control system development using simulation: Software in the loop, rapid prototyping, and hardware in the loop
2002-01-1566	Title: Overview of CARAT-4, a multi-body simulation and collision modelling program
2002-01-1567	Title: Developing an ADAMS model of an automobile using test data
2002-01-1568	Title: Driver/vehicle modelling and simulation
2002-01-1569	Title: Handling objective evaluation using a parametric driver model for ISO lane change simulation
2002-01-1570	Title: Modelling of human response from vehicle performance characteristics using artificial neural networks
2002-01-1572	Title: The influence of tire properties on the stability of a motorcycle in straight running and curves
2002-01-1573	Title: Modelling and implementation of steering system feedback for the national advanced driving simulator
2002-01-1574	Title: Development of an expert system for race car driver and chassis diagnostics
2002-01-1575	Title: ELASIS SimuOVe (SIMULator Of VEHicle)—A vehicle dynamic model oriented to chassis control systems synthesis and verification
2002-01-1576	Title: Customer orientation in advanced vehicle design
2002-01-1577	Title: Parameter estimation of vehicle handling model using genetic algorithm
2002-01-1579	Title: Analysis of the STI tire model
2002-01-1580	Title: 4-DOF Vehicle Ride Model
2002-01-1581	Title: Quarter Vehicle Ride Model
2002-01-1582	Title: A new approach to control a semi-active suspension using different optimal strategies
2002-01-1583	Title: Genetic algorithm-based parameter identification of a nonlinear full-vehicle ride model
2002-01-1584	Title: Driveline torque-bias-management modelling for vehicle stability control
2002-01-1585	Title: The concept of performance-oriented yaw-control systems: vehicle model and analysis
2002-01-1586	Title: Development of vehicle dynamics management system for hybrid vehicles—ECB system for improved environmental and vehicle dynamic performance
2002-01-1587	Title: Trade-offs for vehicle stability control sensor sets

2002-01-1588	Title: Fuzzy Based Stability Enhancement System for a Four-Motor-Wheel Electric Vehicle
2002-01-1589	Title: Time delay control of a 4WS vehicle-a comparison of single- and dual-steering control strategies
2002-01-1590	Title: Model reference tracking control of a 4WS vehicle using single and dual steering strategies
2002-01-1591	Title: A comparison between zero steady state compensators and optimal control regulators in a 4WS vehicle
2002-01-1593	Title: Simulation tools and evaluation criteria for steering wheel feel improvement of an electric power steering system
2002-01-1596	Title: The design of a controller for the steer-by-wire system using the hardware-in-the-loop-simulation system
2002-01-1597	Title: A tool for control algorithm development of an active vehicle suspension using hardware-in-the-loop
2002-01-1598	Title: An experimental assessment of the online tuning of active suspension controller gains
2002-01-1601	Title: Development of a haptic braking system as an ACC vehicle FCW measure
2002-01-1603	Title: A centrifuge concept for measuring the rollover threshold of light-duty vehicles
2002-01-1604	Title: Opposing or counter spring (bi-linear) suspension technology for optimum vehicle dynamic roll control without computers
2002-01-1605	Title: A predictive rollover sensor
2002-01-1606	Title: Controller Area Network (CAN) simulation of alternative vehicle electronic architectures
SAE Brake Colloquium and Engineering Display	
2001-01-3126	Title: Animations of a disc brake generating noise
2001-01-3132	Title: Disc brake caliper system modeling
2001-01-3134	Title: An analytical assessment of rotor distortion attributed to wheel assembly
2001-01-3135	Title: An experimental investigation of hot judder
2001-01-3136	Title: First order analysis of low-frequency disk brake squeal
2001-01-3137	Title: Analysis for reducing low-frequency squeal of disc brake
2001-01-3138	Title: Influence of friction law on brake creep-groan
2001-01-3140	Title: Prediction of damper effects in a brake system model
2001-01-3141	Title: A study on the reduction of disc brake squeal using complex eigenvalue analysis
2001-01-3143	Title: Correlating dynamometer and vehicle brake test results: Brake squeal

2001-01-3145	Title: Brake N&V quality: Noise dynamometer evaluation
2001-01-3150	Title: A preliminary dynamic model of brake friction using pressure and temperature
2001-01-3158	Title: Study on reduction of brake squeal caused by in-plane vibration of rotor
973016	Title: A high aerodynamic performance brake rotor design method for improved brake cooling
973018	Title: Brake judder analysis using transfer functions
973019	Title: Statistical analysis of brake noise matrices
973026	Title: Mechanisms of brake creep groan
973027	Title: Proposals for the classification of brake noise—An equivalent noise dose rating
973028	Title: Cascaded target setting for brake and chassis NVH
973029	Title: Study on reduction method of brake squeal
973030	Title: Study on stabilization of friction coefficient of disc brake pads in cold condition
982236	Title: Disc brake noise reduction through metallurgical control of rotor resonances
982237	Title: FMVSS 121 simulation
982241	Title: Advances/progress in NVH brake test technology
982244	Title: Advances and challenges in electronic braking control technology
982245	Title: Brake noise resolution on the 1998 Mercedes-Benz M-Class
982250	Title: An investigation of low frequency drum brake noise
982251	Title: FE analysis of low-frequency disc brake squeal (in case of floating type caliper)
982252	Title: A dynamometer investigation of thermal judder
982256	Title: Brake noise data acquisition and analysis system
SAE Brazil '93 Mobility Technology Conference and Exhibit	
931611	Title: Dynamic vehicle simulation by integration of finite elements and mechanism technologies
931614	Title: Theoretical control properties of multiform models for the study of automotive vehicles motion
931617	Title: Steering systems with speed related variable forces
931620	Title: A theoretical study of the performance of the brake system of a highway vehicle using a semi-automatic system
931621	Title: New way to increase the "S" Cam brake useful lining life and tire, applied for trucks, buses and trailers without cost penalty.
931623	Title: Hydrostatic steering gear—New developments
931691	Title: A proposal for mathematical design of shock absorbers

931693	Title: Methodology for characterizing the road damaging dynamics of truck tandem suspensions
931694	Title: Modeling of vehicle suspension system using bond graphs
931695	Title: Checking the suspension movements considering the flexibility of the vehicle structure Title: Modeling and simulation of a five-point vehicle suspension using multibody systems (MBS) techniques.
931697	
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942375	Title: Traction control and modeling of tracked vehicles
942378	Title: Semi-active suspension with multiple damping and leveling curves
942379	Title: Steering wheel static structural analysis process optimization
942380	Title: Hydraulic test of ABS/TR brake system and modeling
942388	Title: Magnetic power steering assist system—Magnasteer
942402	Title: Practical ruled-based vehicle traction control
942405	Title: Design and comparison of autonomous intelligent cruise control systems
SAE Brazil 95	
952213	Title: A study of the influence of the brake force distribution on the directional stability of heavy vehicles during the braking process
952214	Title: A description of a computer system for the study of brake performance of heavy trucks Title: A study of the braking performance of heavy trucks using the ""static equilibrium"" or ""center of gravity range"" technique
952215	
952251	Title: Suspension and bushing parameter optimization for vibration reduction in a heavy vehicle cab
952260	Title: Truck safety technology for the 21st century
952278	Title: Potential of electronically controlled brake systems Title: Current positions and development trends in air brake systems for Mercedes-Benz commercial vehicles
952303	
SAE Brazil 96 V International Mobility Technology Conference and Exhibit	
962341	Title: Modeling and simulation of a MacPherson vehicle suspension concept using multibody systems techniques
SAE Brazil 97 VI International Mobility Technology Conference and Exhibit	
973041	Title: The design and benefits of electric power steering

973045	Title: Performance, distribution of braking and compatibility of heavy vehicles during braking process including ECE-R13 requirements
973062	Title: Improvement of internal noise characteristics of a vehicle with McPherson suspension by mass addition to the rod of the shock absorber
973067	Title: Design characteristics of McPherson suspensions
973074	Title: Computer program for the analysis of the reliability of pneumatic automotive brakes
973115	Title: A system of evaluating aftermarket four-wheel-drive suspension performance
973118	Title: Effective catalyst layout for ultra-thin-wall and high-cell-density ceramic substrate
SAE Digital Human Modeling for Design and Engineering International Conference and Exposition	
2000-01-2184	Title: A driver direction control model and its application in the simulation of driver-vehicle-road closed-loop system
SAE Earthmoving Industry Conference and Exposition	
941117	Title: Flexible body dynamic simulation of a large mining truck
941118	Title: Modeling vehicle suspension structural compliance at Ford Motor Company using a coupling of ADAMS™ and MSC/NASTRAN™
SAE Future Transportation Technology Conference and Exposition	
1999-01-2887	Title: Influence of ACC in Stop&Go mode on traffic flow
1999-01-2949	Title: A new approach to investigate the vehicle interface driver/brake pedal under real road conditions in view of oncoming brake-by-wire systems
1999-01-2950	Title: Safety benefits estimation of an intelligent cruise control system using field operational test data
1999-01-2952	Title: Yaw instability due to longitudinal load transfer during braking in a curve
2000-01-3057	Title: Driver fuzzy decision-making model of vehicle preview course
2000-01-3077	Title: Fuzzy neural networks control of a semi-active suspension system with dynamic absorber
2001-01-2478	Title: Electronic braking system of EV And HEV—Integration of regenerative braking, automatic braking force control and ABS
2001-01-2479	Title: Development experience with steer-by-wire
2001-01-2517	Title: The role of vision sensors in future intelligent vehicles
2001-01-2519	Title: A new control strategy for vehicle active suspension system using PID and fuzzy logic control
2001-01-2520	Title: An accurate simple model for vehicle handling using reduced-order model techniques

2001-01-2534	Title: Advanced electronic chassis control systems
2001-01-2535	Title: Measuring yaw rate with accelerometers
2001-01-2552	Title: Controlling weight transfer with active damping
2001-01-2554	Title: Aerodynamic drag and fuel economy in a Formula SAE racing style vehicle
871557	Title: Simulation of heavy truck ride using a desktop computer
921595	Title: Combining properties for driving pleasure and driving safety: a challenge for the chassis engineer
921604	Title: Improving vehicle handling performance by a closed-loop 4WS driving controller
931805	Title: Determinants of multiple measures of acceleration
931844	Title: Designing energy absorbing steering wheels through finite element impact simulation
931846	Title: Shock isolation properties in a swinging mechanism suspension used in motorcycles (Front collision safety)
951893	Title: Emergency maneuvers for AHS vehicles
951897	Title: Throttle and brake combined control for intelligent vehicle highway systems
951898	Title: Comparison of sliding and PID control for longitudinal automated platooning
951929	Title: Brake dynamics effect on AHS lane capacity
972652	Title: Automatic vehicle steering using a fixed-orientation distance feedback sensor
972667	Title: Identifying optimal locations for the deployment of a truck rollover warning system
972669	Title: Monopulse radar for intelligent cruise control
972691	Title: Development and analysis of a prototype controllable suspension
981895	Title: Electronic monitoring of commercial vehicle outboard brakes to determine out-of-service conditions
981942	Title: Autonomous cruise control: a first step towards automated driving
981944	Title: Future car tires as provider of information for vehicle systems to enhance primary safety
SAE General, Corporate and Regional Aviation Meeting and Exposition	
911027	Title: Aerodynamic noise of ground vehicles
SAE Government Industry Meeting and Exposition	
1999-01-2238	Title: Progress in reducing aerodynamic drag for higher efficiency of heavy duty trucks (class 7-8)
1999-01-2257	Title: Numerical design of racecar suspension parameters

2000-01-2208	Title: Development of pneumatic aerodynamic devices to improve the performance, economics, and safety of heavy vehicles
2001-01-2072	Title: Advanced aerodynamic devices to improve the performance, economics, handling and safety of heavy vehicles
891105	Title: Steady state and dynamic properties of All Terrain Vehicles related to lateral/directional handling and stability
891108	Title: All Terrain Vehicle lateral stability and the limits of control
SAE International Congress and Exposition 1999-01-0030	Title: Understanding vehicle roll using mechanism simulation software
1999-01-0032	Title: Shape optimization of a front suspension fork according to the axiom of constant stress
1999-01-0034	Title: Estimation of maximum damping force and bending stress of suspension components using the AutoDyn7 program
1999-01-0035	Title: Dynamic characterization of microcellular urethane jounce bumpers under impact conditions
1999-01-0042	Title: Self-energizing leveling systems—Their progress in development and application
1999-01-0045	Title: Development of torsion beam rear suspension with toe control links
1999-01-0046	Title: Roll centers and jacking forces in independent suspensions—A first principles explanation and a designer's toolkit
1999-01-0092	Title: Low speed acceleration of the Freightliner FLD-120 tractor truck
1999-01-0117	Title: Vehicle dynamics fingerprint process
1999-01-0119	Title: Vehicle dynamics analysis of a heavy truck/trailer combination using simulation
1999-01-0120	Title: Vehicle handling with tire tread separation
1999-01-0121	Title: Vehicle dynamics modeling for the National Advanced Driving Simulator of a 1997 Jeep Cherokee
1999-01-0122	Title: Characteristics of on-road rollovers
1999-01-0123	Title: A method for reducing on-road rollovers—Anti-rollover braking
1999-01-0124	Title: Computer simulation analysis of light vehicle lateral/directional dynamic stability
1999-01-0125	Title: A test and simulation process to improve rollover resistance
1999-01-0126	Title: Tire properties affecting vehicle rollover
1999-01-0138	Title: Comparison of different methods for the determination of the friction temperature of disc brakes
1999-01-0140	Title: 72 curved fins and air director idea increases airflow through brake rotors
1999-01-0141	Title: Cast iron brake discs—Current position, performance and future trends in Europe



1999-01-0142	Title: An investigative overview of automotive disc brake noise
1999-01-0143	Title: Modeling and analysis of geometrically induced vibration in disc brakes considering contact parameters
1999-01-0144	Title: Study of a method for reducing drum brake squeal
1999-01-0145	Title: Effect of brake plate and fin joint on rotor noise damping
1999-01-0392	Title: Energy-saving and reduction of oil temperature rising in hydraulic power steering system
1999-01-0393	Title: The study for the reduction of idle vibration of steering system through the use of a weight reduction method
1999-01-0394	Title: Applying driving simulation to quantify steering effort preference as a function of vehicle speed
1999-01-0395	Title: Improvement in driver-vehicle system performance by varying steering gain with vehicle speed and steering angle—VGS (variable gear-ratio steering system)
1999-01-0397	Title: Isolating hydraulic noise from mechanical noise in power rack and pinion steering systems
1999-01-0398	Title: Active reduction of pressure ripple in power steering systems
1999-01-0399	Title: Modeling and analysis of an electric power steering system
1999-01-0400	Title: The steer-by-wire prototype implementation: realizing time- triggered system design, fail-silence behavior and active replication with fault-tolerance support
1999-01-0401	Title: Electric power steering—The first step on the way to "steer by wire"
1999-01-0402	Title: Development of robust motor servo control for rear-steering actuator based on two-degree-of-freedom control system
1999-01-0403	Title: A control strategy to reduce steering torque for stationary vehicles equipped with EPS
1999-01-0404	Title: Electro hydraulic power steering system
1999-01-0430	Title: Automotive rollover angular rate sensors and evaluation
1999-01-0431	Title: The contribution of occupant and vehicle dynamics simulation to testing occupant safety in passenger cars during rollover
1999-01-0438	Title: Vehicle tests and simulation tools for rollover sensing
1999-01-0446	Title: Anatomy of accidents following tire disablements
1999-01-0447	Title: Drag and steering effects from tire tread belt separation and loss
1999-01-0448	Title: New dimensions in rollover analysis
1999-01-0449	Title: Influence of passenger and cargo load on the at limit handling of a mini van
1999-01-0450	Title: Vehicle handling with tire tread separation

1999-01-0476	Title: Rule-based wheel slip assignment for vehicle stability enhancement
1999-01-0477	Title: A novel antilock braking system (M-ABS) using pure 4 axial directional forces
1999-01-0478	Title: A tire traction modeling for use in ice mobile
1999-01-0480	Title: Mechanical brake assist—A potential new standard "safety feature"
1999-01-0481	Title: Variable rate pedal feel emulator designs for a brake-by-wire system
1999-01-0482	Title: Clamping force estimation for a brake-by-wire actuator
1999-01-0483	Title: Numerical prediction of brake fluid temperature rise during braking and heat soaking
1999-01-0607	Title: Improved Army vehicle brakes/safety through partnering
1999-01-0647	Title: the role of the moving ground for automotive wind tunnel testing on race cars
1999-01-0648	Title: Wake structures of rectangular bodies with radiused edges near a plane surface
1999-01-0649	Title: Experimental study of CDvariation with aspect ratio
1999-01-0650	Title: Moving belt with distributed suction in the Porsche model wind tunnel
1999-01-0651	Title: The influence of aerodynamic lift on high-speed stability
1999-01-0652	Title: Ground effect of a simplified car model in side-wind and turbulent flow
1999-01-0724	Title: Vehicle body attitude control using an electronically controlled active suspension
1999-01-0725	Title: A bistate control of a semiactive automotive suspension
1999-01-0726	Title: Finite element multibody system control of tractor semitrailers with active suspension and controller time delay
1999-01-0728	Title: elimination of limit cycles due to signal estimation in semi- active suspensions
1999-01-0729	Title: Intelligent estimation of system parameters for active vehicle suspension control
1999-01-0730	Title: The design of an electromagnetic linear actuator for an active suspension
1999-01-0732	Title: Development of a common vehicle model for chassis control design
1999-01-0735	Title: Finite element dynamic analysis of the rear axle system
1999-01-0784	Title: Modeling of tire cornering properties with experimental modal parameters
1999-01-0785	Title: A unified semi-empirical tire model with higher accuracy and less parameters
1999-01-0786	Title: Evaluation on analytical tire models for vehicle vertical vibration simulation using virtual tire testing method
1999-01-0787	Title: New parameters for comparing tire rolling resistance
1999-01-0788	Title: Multiple applications, multiple roles: How carbon black technologies help tires roll better
1999-01-0789	Title: A new mathematical-physical 2D tire model for handling optimization on a vehicle
1999-01-0790	Title: Dynamic properties of tires—Testing and simulation

1999-01-0791	Title: Lateral stability analysis of a 2-degree-of-freedom vehicle using a time-lagged lateral tire force model
1999-01-0802	Title: Potential of CFD in analysis under-bonnet airflow phenomena
1999-01-0804	Title: Numerical analysis of unsteady compressible turbulent flows about a train passing through a tunnel
1999-01-0805	Title: On comparisons between CFD methods and wind tunnel tests on a bluff body
1999-01-0806	Title: The influence of ground condition on the flow around a wheel located within a wheelhouse cavity
1999-01-0807	Title: Development of a rear spoiler with built-in antenna
1999-01-0808	Title: An improved wind tunnel configuration for the investigation of aerodynamic crosswind gust response
1999-01-0809	Title: The reconstruction of periodic pressure fields from point measurements
1999-01-0810	Title: Unsteady pressure analysis of the wake flow behind a passenger car model
1999-01-0812	Title: Experimental study of a ground vehicle body unsteady near wake
1999-01-0813	Title: On low-frequency pressure pulsations and static pressure distribution in open-jet automotive wind tunnels
1999-01-0820	Title: Performance considerations for run-off-road countermeasure systems for cars and trucks
1999-01-0821	Title: Effects of steering system characteristics on control performance from the viewpoint of steer-by-wire system design
1999-01-0822	Title: Improved crash avoidance using performance-based brake test results
1999-01-0948	Title: Road load and customer data from the vehicle data bus—A new approach for quality improvement
1999-01-0949	Title: Vehicle drivability—Its characterization and measurement
1999-01-1124	Title: Measurement and evaluation of aerodynamic noise
1999-01-1125	Title: Evaluation of wind noise in passenger car compartment in consideration of auditory masking and sound localization
1999-01-1126	Title: Review of aerodynamic noise prediction using CFD
1999-01-1127	Title: Aerodynamic noise simulation based on Lattice Boltzmann Method (surface pressure fluctuations around A-pillar)
1999-01-1128	Title: Aeroacoustics of an automobile A-pillar rain gutter: Computational and experimental study
1999-01-1262	Title: New technology in passive adaptive traction control for four-wheel-drive vehicles

1999-01-1264	Title: 4WD market trends in vehicles and the adaptations of new technology in the international automotive community
1999-01-1286	Title: An overview of the National Highway Traffic Safety Administration's light-vehicle antilock brake systems research program
1999-01-1287	Title: A comprehensive light vehicle antilock brake system test track performance evaluation
1999-01-1288	Title: Driver crash avoidance behavior with ABS in an intersection incursion scenario on dry versus wet pavement
1999-01-1290	Title: Driver crash avoidance behavior with ABS in an intersection incursion scenario on the Iowa Driving Simulator
1999-01-1291	Title: Consumer braking performance information initiative
1999-01-1301	Title: Intelligent systems for aiding the truck driver in vehicle control
1999-01-1302	Title: A simple CCD-based lane tracking system
1999-01-1311	Title: ULSAS—Improving performance through lightweight automotive suspension systems—Phase 1—Benchmarking and initial design concepts
1999-01-1322	Title: A shock absorber model using CFD analysis and Easy5
1999-01-1323	Title: Suspension parameter measurement using side-pull test to enhance modeling of vehicle roll
1999-01-1324	Title: Aerodynamic forces experienced by a 3-vehicle platoon in a crosswind
1999-01-1335	Title: An assumed modes method approach to disc brake squeal analysis
1999-01-1336	Title: Measured vehicle inertial parameters—NHTSA's data through November 1998
810045	Title: Comprehensive measurement of ride of in-service trucks
810046	Title: Subjective and objective ride evaluations of commercial vehicles
810047	Title: A subjective assessment of truck ride quality
810064	Title: Lateral maneuvers of passenger vehicles—subjective impressions versus dynamic measurements and the role of the tire
810065	Title: The effect of stabilizer ply geometry on rolling resistance and cornering force properties
810184	Title: Formulae for the tractive-energy requirements of vehicles driving the EPA schedules
810185	Title: Necessity and premises for reducing the aerodynamic drag of future passenger cars
810186	Title: Automobile aerodynamic drag on the road compared with wind tunnel tests
810187	Title: FIAT Research Center reference car: correlation tests between four full scale European wind tunnels and road

810311	Title: Establishment of vehicle braking behavior patterns with special reference to U. S. and European test procedures
810314	Title: New pin slider disc brake designs for compact U. S. cars of the 80's
810408	Title: Considerations for improvement of conventional motorcycle brake systems
810513	Title: Contribution to the simulation of driver-vehicle-road system
820027	Title: Valeo Crown Brake
820079	Title: Computer simulation of suspension abuse tests using ADAMS
820095	Title: Simulation methods for evaluating passenger car ride comfort and the fatigue strength of vehicle components
820135	Title: Description and performance of trailer brake systems with recommendations for an effectiveness test procedure
820136	Title: Basic analytical results for lateral stability of car/trailer systems
820137	Title: Crosswind response and stability of car plus utility trailer combinations
820139	Title: Three wheeled vehicle dynamics
820140	Title: Three-wheel passenger vehicle stability and handling
820303	Title: Stability and performance analysis of automobile driver steering control
820305	Title: Closed loop automobile maneuvers using preview-predictor models
820306	Title: Closed loop automobile maneuvers using describing function models
820307	Title: The effect of simulator motion on driver performance
820371	Title: The General Motors engineering staff aerodynamics laboratory - a full-scale automotive wind tunnel
820374	Title: Correlation of aerodynamic force measurements in MIRA and other automotive wind tunnels
820375	Title: Correlation experience with the SAE wind tunnel test procedure for trucks and buses Title: Tractor-trailer fuel savings with an aerodynamic device—a comparison of wind tunnel and on-road tests
820376	
820456	Title: Instrumented objective tire/vehicle handling testing
820489	Title: The development of I.S.O. braking standards
830152	Title: Motorcycle suspension design - state-of-the-art survey, 1983
830153	Title: Advanced motorcycle brake systems - recent results
830157	Title: The performance and handling of a top fuel drag motorcycle
830302	Title: Slotted-wall test section for automotive aerodynamic tests at yaw
830411	Title: The Ford Ranger light truck pin-rail disc brake spring—firmly compliant

830414	Title: Development, status and future trends for hydraulic brake boosters
830442	Title: Progress in British tracked vehicle suspension systems
830482	Title: Rear brake lock-up control system of Mitsubishi Starion
830483	Title: The first compact 4-wheel anti-skid system with integral hydraulic booster
830484	Title: Performance of antilock brakes with simplified control technique
830561	Title: Tires—stability and control
830562	Title: Vehicle braking, stability and control
830662	Title: Improvements to cruise controls utilizing microprocessor technology
830663	Title: Suspension design for optimum road-holding
830670	Title: The Volkswagen research car - Auto 2000
840069	Title: Objective evaluation of on-center handling performance
840249	Title: An analytical approach to antilock brake system design
840258	Title: Chassis electronic control systems for the Mitsubishi 1984 Galant
840297	Title: Aerodynamic characteristics of the Fiat UNO car Title: The effect of ambient wind on a road vehicle's aerodynamic work requirement and fuel consumption
840298	
840301	Title: Some observations on road vehicle wakes
840302	Title: Drag measurement through wake analysis
840341	Title: Toyota electronic modulated suspension (TEMS) system for the 1983 Soarer Title: 1984 Continental Mark VII/Lincoln Continental electronically-controlled air suspension (EAS)
840342	system
840464	Title: Evaluation criteria for low cost anti-lock brake systems for FWD passenger cars
840465	Title: Electric motor powered brake actuation system
840467	Title: Pressure modulation in separate and integrated antiskid systems with regard to safety
840468	Title: A new anti-skid-brake system for disc and drum brakes
840561	Title: Typical vehicle parameters for dynamics studies revised for the 1980's
850001	Title: Heavy truck ride
850053	Title: Cost-benefit analysis of simplified ABS
850279	Title: The control of aerodynamic parameters influencing vehicle dynamics
850281	Title: An automotive front-end design approach for improved aerodynamics and cooling
850283	Title: Investigation of negative lifting surfaces attached to an open-wheel racing car configuration

850284	Title: Some principles of automotive aerodynamic testing in wind tunnels with examples from slotted wall test section facilities
850286	Title: Comparison of on-road and wind-tunnel tests for tractor-trailer aerodynamic devices, and fuel savings predictions
850287	Title: Full-scale, on-road study of the effect of automobile shape on its aerodynamic characteristics, and comparison with small-scale wind tunnel results
850288	Title: The effect of front-edge rounding and rear-edge shaping on the aerodynamic drag of bluff vehicles in ground proximity
850344	Title: Multidimensional modeling of cold flows and turbulence in reciprocating engines
850473	Title: Use of a supercomputer in aerodynamics computations at General Motors Research Laboratories
850537	Title: Steady-state steering response of an articulated vehicle with a multi-axle forced steering dolly
860019	Title: Lateral stability of recreational vehicles in steady-state turning: an extended bicycle model
860020	Title: Motorcycle braking methods
860091	Title: Aerodynamic drag studies on rolling vehicles by underwater tow testing
860094	Title: Aerodynamic-correlation tests between the MIRA and JARI wind tunnels
860211	Title: Drag and driving-stability-related aerodynamic forces and their interdependence—results of measurements on 3/8-scale basic car shapes
860212	Title: Car underside, upperbody and engine cooling system interactions—and their contributions to aerodynamic drag
860215	Title: A wind-tunnel method for evaluating the aerodynamic noise of cars
860216	Title: Aerodynamic characteristics of Subaru XT
860225	Title: An introduction to the operational characteristics of all-terrain vehicles
860227	Title: A full-suspension three-wheeled ATV system: part I—modeling and parameter values
860228	Title: A full-suspension three-wheeled ATV system: part II—roll, pitch and vertical motions
860506	Title: Traction Control System with Teves ABS Mark II
860507	Title: Antilock braking regulations
860508	Title: Upgrade levels of the Bosch ABS
860511	Title: 4-sensor 2-channel anti-lock system for FWD cars

860574	Title: Vehicle dynamic handling computer simulation—model development, correlation, an application using ADAMS
860575	Title: Steady state cornering on uneven roadways
860623	Title: The development of an experimental four-wheel-steering vehicle
860624	Title: Improvement of vehicle dynamics by vehicle-speed-sensing four-wheel steering system
860625	Title: Four wheel steering system with rear wheel steer angle controlled as a function of steering wheel angle
870001	Title: Heavy duty truck aerodynamics
870244	Title: Advanced experimental techniques and their application to automotive aerodynamics
870247	Title: The aerodynamic development of the 1986 European Ford Transit
870259	Title: New generation of single pin caliper brakes
870334	Title: The influence of braking efficiency on the probability of wheel lockup
870336	Title: Real time simulation for application to ABS development
870337	Title: ASR —traction control —a logical extension of ABS
870493	Title: Benefits of front brakes on heavy trucks
870494	Title: Using a vehicle dynamics handbook as a tool for improving the steering and braking performances of heavy trucks
870495	Title: Steady state and transient analysis of ground vehicle handling
870497	Title: Investigation into the effects of suspension design on stability of light vehicles
870540	Title: 1987 Thunderbird turbo coupe Programmed Ride Control (PRC) suspension
870541	Title: Toyota electronic modulated air suspension for the 1986 Soarer
870542	Title: Controllability and stability of various types of four wheel drive cars
870574	Title: Electrohydraulic power steering —an advanced system for unique applications
880250	Title: Wind tunnel-to-road aerodynamic drag correlation
880321	Title: Brakes and ABS on four-wheel drive vehicles
880455	Title: Predicting vehicle aerodynamics using computational fluid dynamics—A user's perspective
880641	Title: Analysis of driver and a four wheel steering vehicle system using a driving simulator
880642	Title: Four wheel steering—Maneuverability and high speed stabilization
880643	Title: Linear analysis of a vehicle with four-wheel steering
880701	Title: Directional stability augmentation for all wheel drive vehicles



890113	Title: Antilock systems for air-braked vehicles
890179	Title: Development of a new multi-link front suspension
890368	Title: A study of ground simulation—Correlation between wind-tunnel and water-basin tests of a full-scale car
890371	Title: Vehicle coastdown resistance analysis under windy and grade- variable conditions
890372	Title: Development of ""Aero Slit""—Improvement of aerodynamic yaw characteristics for commercial vehicles
890373	Title: Aerodynamic development of an experimental car
890526	Title: Toyota EC-HYMATIC—A new full time 4WD system for automatic transmission
890598	Title: Computational study of the aerodynamic behavior of a three- dimensional car configuration
890599	Title: Numerical simulation of flow around a heavy-duty truck body
890600	Title: Study of an open-wheel racing-car's rear-wing aerodynamics
890639	Title: Quantifying tire, rim and vehicle effects on ride quality
890832	Title: A study for applying an anti-lock braking system to four-wheel drive cars
890833	Title: Traction control (TRC) system for 1987 Toyota Crown
890834	Title: ABS and ASR for passenger cars—Goals and limits
890835	Title: A new system for independently controlling braking force between inner and outer rear wheels
890867	Title: Truck braking standards and regulations in Japan
890872	Title: The lateral stability of recreational vehicles in steady-state turning—A spread time model
900004	Title: The role of friction film in friction, wear, and noise of automotive brakes
900005	Title: Contact analysis for a passenger car disc brake
900007	Title: Study on disc brake groan
900103	Title: Tire-roadway friction coefficients on concrete and asphalt surfaces applicable for accident reconstruction
900104	Title: Engineering parameters related to rollover frequency
900106	Title: Skidmark signatures of ABS-equipped passenger cars
900127	Title: Field testing and computer simulation analysis of ground vehicle dynamic stability
900128	Title: A methodology for validating vehicle dynamics simulations
900129	Title: Lateral stiffness, cornering stiffness and relaxation length of the pneumatic tire
900130	Title: An active control algorithm of vehicle suspensions

900187	Title: Correction of wind tunnel force data for yawed full and half scale truck models using a modified pressure signature method
900204	Title: ASR-traction control, state of the art and some prospects
900205	Title: A new algorithm for ABS to compensate for road-disturbance
900207	Title: Antilock brake system (M-ABS) based on the friction coefficient between the wheel and the road surface
900208	Title: Teves Mk IV anti-lock and traction control system
900209	Title: The integrated brake and stability control system of the new BMW 850i
900210	Title: Measurement and simulation of transients in longitudinal and lateral tire forces
900212	Title: The ""Lexus"" traction control (TRAC) system
900313	Title: Determining the wind forces and moments acting on vehicles by means of pressure sensors
900314	Title: Airfoil plan-view body shapes to reduce drag at yaw
900315	Title: Automobile aerodynamic noise
900316	Title: An experimental analysis and estimation of aerodynamic noise using a production vehicle
900317	Title: The aerodynamic development of the Opel Calibra
900318	Title: Analysis of wake pattern for reducing aerodynamic drag of notchback model
900319	Title: Numerical analysis of the airflow around automobiles using multi- block structured grids
900320	Title: Studies supporting the development of an automotive adaptive-wall wind tunnel
900321	Title: Comparison of different ground simulation techniques for use in automotive wind tunnels
900366	Title: Testing and analysis of vehicle rollover behavior
900556	Title: New electronically controlled torque split 4WD system for improving cornering performance
900660	Title: Hydraulically controlled adjustable dampers
900661	Title: An optimized approach to suspension control
900662	Title: EDC III—The new variable damper system for BMW's top models—A further development of our adaptive, frequency-dependent damper control
900663	Title: A new high speed suspension spring test machine
900665	Title: Prediction methods of rough-road-load applied to vehicle body
900666	Title: Dynamic simulation of chassis component loads
900758	Title: Development of simplified two-axle tire uniformity tester

900759 Title: Radial vibrations of pneumatic radial tires  
900760 Title: Moments of inertia of mounted and unmounted passenger car and motorcycle tires  
Title: The relationship between angular velocity variations and fore and aft non-uniformity forces in tires  
900761  
900762 Title: Effects of material properties on tire noise  
900763 Title: Polyurethane non-pneumatic tire technology—Development and testing history  
Title: Improving vehicle response to engine and road excitation using interactive graphics and modal reanalysis methods  
900817  
900847 Title: The brake rotor—Friction partner of brake linings  
910113 Title: The driving simulator with large amplitude motion system  
910122 Title: Light truck inertial properties  
910126 Title: Heavy truck deceleration rates as a function of brake adjustment  
910167 Title: Emergency braking test of the ice and snow tires on iced drum tester  
910168 Title: Estimation method of tire treadwear on a vehicle  
910232 Title: A simplified method for the measurement of composite suspension parameters  
  
910233 Title: An experimental investigation of passenger car tire properties at high slip and camber angles  
910234 Title: Characteristics influencing ground vehicle lateral/directional dynamic stability  
910235 Title: The importance of tire lag on simulated transient vehicle response  
  
910236 Title: Simulation of multibody systems for the computer-aided design of vehicle dynamic controls  
  
910237 Title: Real time vehicle dynamics simulation—Enabling tool for fundamental human factors research  
Title: Correlation analysis of open/closed loop data for objective assessment of handling characteristics of cars  
910238  
910239 Title: Effect of lateral tire flexibility on the steering system dynamic behavior  
910240 Title: A simulation system for vehicle dynamics control  
910241 Title: An examination of the maneuverability of an all wheel steer vehicle at low speed  
910307 Title: Water flow simulation of automotive underhood airflow phenomena  
910308 Title: Engine compartment airflow investigations using a laser-doppler-velocimeter  
910309 Title: Ram-recovery coefficient correlations for automotive cooling airflows  
Title: Determination of flow velocity distribution in a vehicle interior using a visualization and computation techniques  
910310  
910311 Title: On the aerodynamic interference due to the rolling wheels of passenger cars

910312	Title: Advanced techniques for flow simulation in automotive climatic wind tunnels
910313	Title: Scale-model tests on the test section of the Chrysler slotted-wall automotive wind tunnel Title: Aerodynamics of road vehicles in tunnels—Flow visualization using the laser light sheet method
910314	and its digital image processing
910315	Title: A calculation method for estimating the transient wind force and moment acting on a vehicle
910574	Title: The effect of brake system evacuation and fill on initial brake pedal travel
910575	Title: On the design of anti-squeal friction pads for disc brakes
910576	Title: High performance brakes for CERV-III
910577	Title: Systematic techniques of hose failure mode analysis
910595	Title: A zonal method for predicting external automobile aerodynamics
910597	Title: Numerical simulation of road vehicle aerodynamics and effect of aerodynamic devices
910598	Title: A grid generating system for automobile aerodynamic analysis
910659	Title: A regenerative active suspension system
910660	Title: Control strategies for active chassis systems with respect to road friction
910661	Title: High speed control of damping force using piezoelectric elements
910662	Title: Improvement of vehicle motion and riding- comfort by active controlled suspension system
910697	Title: Compact 4CH-ABS hydraulic unit
910698	Title: An antilock braking system for sports utility vehicles and light trucks
910700	Title: Development and analysis of new traction control system with rear viscous LSD
920048	Title: Design and operation of a new-type suspension parameter measurement device
920049	Title: Suspension testing on the new-type suspension parameter measurement device
920050	Title: Variability in center of gravity height measurement Title: The relationship between the complexity of linear models and the utility of the computed results
920052	
920053	Title: Comparison of linear roll dynamics properties for various vehicle configurations
920054	Title: Validation of ground vehicle computer simulations developed for dynamics stability analysis Title: Nonlinear analysis of closed loop driver/automobile performance with four wheel steering control
920055	
920056	Title: Development and validation of light vehicle dynamics simulation (LVDS)

920159 Title: A self-tuning automotive cruise control system using the time delay controller  
Title: Unsteady-wake analysis of the aerodynamic drag of a notchback model with critical afterbody geometry

920202

920203 Title: Suppression of mud adhesion to the rear surface of a van-type truck

920204 Title: Aerodynamic drag implications of exterior truck mirrors

920205 Title: Estimation method for automobile aerodynamic noise  
Title: Analysis of interior airflow in a full-scale passenger-compartment model using a laser-light-sheet method

920206 Title: Development of a smart analog integrated circuit for electronic control of an automotive variable power-steering system

920267

920268 Title: Electronically assisted steering

920269 Title: Development of variable displacement oil pump for automotive active suspension

920270 Title: Development of feedforward control algorithms for active suspension  
Title: Development of integrated system between active control suspension, active 4WS, TRC and ABS

920271

920272 Title: Vibration analysis of control valve for active suspension

920273 Title: Simulation analysis of force transfer characteristics of suspension system

920274 Title: The trend of bush bearing materials for strut type shock absorbers

920275 Title: An electronically controlled shock absorber using electrorheological fluid

920276 Title: Improvement of ride comfort by continuously controlled damper

920277 Title: Improvement of ride comfort by preview vehicle-suspension system

920278 Title: The KTH handling test vehicle

920338 Title: A review of CFD methods and their application to automobile aerodynamics

920339 Title: Finite-difference simulation of 3D vortical flows past road vehicles

920341 Title: Numerical study of aerodynamic noise radiated from a three- dimensional wing  
Title: Simultaneous computation of the external flow around a car body and the internal flow through its engine compartment

920342

920343 Title: CFD aerodynamics of the French high-speed train

920344 Title: Measurement of reference dynamic pressure in open-jet automotive wind tunnels  
Title: Aerodynamics of trucks in wind tunnels: the importance of replicating model form, model detail, cooling system and test conditions

920345 Title: The Porsche wind tunnel floor-boundary-layer control—A comparison with road data and results from moving belt

920346

920347 Title: Experimental techniques for the aerodynamic development of convertible cars

920348 Title: A water-basin test technique for the aerodynamic design of road vehicles  
920349 Title: Effect of wing/body interaction on the aerodynamics of two generic racing cars  
920553 Title: Analysis of disc brake squeal  
920554 Title: The brake judder phenomenon  
920581 Title: NHTSA's rollover rulemaking program—Results of testing and analysis  
920582 Title: The measurement of static rollover metrics

920583 Title: The variation of static rollover metrics with vehicle loading and between similar vehicles  
920584 Title: A statistical analysis of vehicle rollover propensity and vehicle stability  
Title: An investigation, via simulation, of vehicle characteristics that contribute to steering maneuver induced rollover  
920585 Title: Traction control (ASR) using fuel-injection suppression—A cost effective method of engine-torque control  
920641 Title: The Corvette acceleration slip regulation (ASR) application with preloaded limited slip differential  
920642

920643 Title: Transputer-based real-time simulator: a high performance tool for ABS and TCS development  
Title: Absolute speed measurement of automobile from noisy acceleration and erroneous wheel speed information  
920644  
920645 Title: Improvement of vehicle dynamics through braking force distribution control  
920646 Title: Electronic brake force distribution control: a sophisticated addition to ABS  
920647 Title: Compact ABS modulator with small-solenoid-valves  
920648 Title: Regenerative braking concepts for electric vehicles—A primer  
920649 Title: Design of a lightweight braking system for electric cars  
920770 Title: FASTAR: a faster analysis of structures using test and analytical results  
920828 Title: CTIS as a vehicle performance enhancer  
920833 Title: Steady-state cornering behavior of novice and experienced drivers  
930205 Title: Simulation techniques for automotive subsystems  
Title: Hardware-in-the-loop simulation as a standard approach for development, customization, and production test  
930207  
930225 Title: Studies on the characteristics of a new suspension system

930262 Title: A method to analyze the imaginary kingpin axis in multi-link type suspension systems

930264 Title: Improving the suspension design process by integrating multibody system analysis and design of experiments

930265 Title: Investigation of the time- and temperature dependency of hydro-pneumatic suspension systems

930266 Title: Active suspension and rear wheel steering make powerful research and development tools

930267 Title: Development of an integrated system of 4WS and 4WD by H infinity control

930268 Title: An actively damped passenger car suspension system with low voltage electro-rheological magnetic fluid

930293 Title: Computational analysis of flow around a simplified vehicle-like body

930294 Title: Development and use of LDV and other airflow measurement techniques as a basis for the improvement of numerical simulation of engine compartment air flows

930295 Title: A numerical evaluation of the thermal effect of the new V6 engine on the underhood environment of the 1993 Opel vectra

930296 Title: A numerical study of wind noise around front pillar

930297 Title: Airflow measurement around passenger car models using a two-channel laser doppler velocimeter

930298 Title: Measurements in the unsteady near wakes of ground vehicle bodies

930299 Title: Measurement and analysis of automobile wind noise

930300 Title: Audi aero-acoustic wind tunnel

930301 Title: Shape study for a low air resistance air deflector

930504 Title: Tandem master cylinder in change-due to specific requirements of anti lock and traction control systems

930505 Title: The new ABS/ASR family to optimize directional stability and traction

930506 Title: ASR built in an add-on ABS

930507 Title: The use of a graphical modeling environment for real-time hardware-in-the- loop simulation of automotive ABS systems

930508 Title: The braking system layout of electric vehicles-example BMW E1

930509 Title: Synthesis of ABS hydraulic systems

930510 Title: Autonomous intelligent cruise control incorporating automatic braking

930511 Title: Fault tolerance analysis of alternate automotive brake system designs

930512 Title: A method for the instantaneous torque measurement of braking or motoring machines under steady or transient operation using digital techniques

930514 Title: Bifurcation in binder wrap forming

930665 Title: A comparison of devices used to measure vehicle braking deceleration  
930670 Title: Intelligent four-wheel drive system  
Title: A computer simulation analysis of safety critical maneuvers for assessing ground vehicle dynamic stability  
930760  
930762 Title: A feasibility study of an automotive slip control braking system  
930763 Title: The influence of lateral load transfer distribution on directional response  
930764 Title: Longitudinal suspension compliance modeling with ADAMS  
930765 Title: Dynamics of four-wheel-steer off-highway vehicles  
930771 Title: A robust cruise control system using the disturbance observer  
930799 Title: Establishing brake design parameters for customer satisfaction  
930800 Title: A requirements driven design methodology for a vehicle brake system  
930802 Title: Experimental study on disc brake squeal  
930803 Title: Brake roughness-disc brake torque variation, rotor distortion and vehicle response  
930804 Title: Brake noise caused by longitudinal vibration of the disc rotor  
930805 Title: The application of holographic interferometry to the study of disc brake noise  
930806 Title: Development of brake friction material  
Title: Objective evaluation of the simulated handling characteristics of a vehicle in a double lane change manoeuvre  
930826  
930827 Title: An objective measurement technique for the quantification of on-center handling quality  
930828 Title: Pulse testing techniques applied to vehicle handling dynamics  
930829 Title: An investigation of the pulse steer method for determining automobile handling qualities  
930830 Title: The use of random steer test data for vehicle parameter estimation  
930831 Title: An investigation into dynamic measures of vehicle rollover propensity  
930832 Title: Repeatability of the tilt-table test method  
930833 Title: Development of vehicle-terrain impact model for vehicle dynamics simulation  
930834 Title: Development and use of laboratory flat surface roadway technology  
930835 Title: Development and application of a functional model to vehicle development  
930847 Title: Semiactive suspension for military vehicles  
Title: Calculation of driving performance, fuel consumption and emissions of military trucks by driving simulation  
930850  
931024 Title: New air brake technology for the 90's  
940175 Title: Requirements for vehicle dynamics simulation models



940176	Title: The Ford driving simulator
940178	Title: Real-time wheel brake and tire lateral force models refined for low speeds
940179	Title: The General Motors driving simulator
940182	Title: Design analysis of an electronically-controlled hydraulic braking system using the Saber Simulator
940185	Title: DSP-based automotive sensor signal generation for hardware-in- the-loop simulation
940223	Title: Dynamic tire modeling for application with vehicle simulations incorporating terrain
940224	Title: The effects of roll control for passenger cars during emergency maneuvers
940225	Title: Methodology for tripped vehicle rollover testing and analysis of experimental results
940226	Title: Effects of outrigger design on vehicle dynamics
940227	Title: Simulator motion base sizing using simulation
940228	Title: Meeting important cuing requirements with modest, real-time, interactive driving simulations
940229	Title: Active control of drive motion of four wheel steering car with neural network
940230	Title: A systematic approach to vehicle design using VDAS (Vehicle Dynamics Analysis Software)
940231	Title: Validation of computer simulations of vehicle dynamics
940248	Title: Modeling of shock absorber behavior using artificial neural networks
940273	Title: Design for pitch and bounce motions of single-passenger off- road vehicles
940274	Title: Modeling of pitch and bounce motions of singe-passenger off- road vehicles
940277	Title: Steady-state and transient response characteristics of selected all-terrain vehicles (ATVs)
940323	Title: A calibration study of CFD for automotive shapes and CD
940325	Title: The aerodynamic development of a small specialty car
940331	Title: Objective characterization of vehicle brake feel
940332	Title: The evolution of the pad guided disc brake caliper
940335	Title: Weight reduction of disc brake systems with the utilization of new aluminum material
940414	Title: The effect on aerodynamic drag of the longitudinal position of a road vehicle model in a wind tunnel test section

940415	Title: On the induced flow noise of test sections in different wind tunnels and in the cabin of a passenger car
940416	Title: The Chrysler 3/8-scale pilot wind tunnel
940417	Title: Aeroacoustic testing improvements at Pininfarina
940418	Title: A further evaluation of the ground-plane suction method for ground simulation in automotive wind tunnels Title: Recent developments of experimental techniques and their applications at NASA Langley Research Center
940419	
940420	Title: A detailed drag study using the coastdown method
940421	Title: Drag measurements on 2,3 & 4 car platoons
940422	Title: An experimental study of the aerodynamic interference between road vehicles
940533	Title: Influence of wheel resonance on tire acoustic cavity noise
940534	Title: Development of the SAE J1981 road hazard impact test for wheel and tire assemblies
940535	Title: Integrity assessment of repaired cast-aluminum automotive wheels
940723	Title: Braking and cornering effects with and without anti-lock brakes
940829	Title: ABS—Extending the range
940830	Title: Fuzzy logic continuous and quantizing control of an ABS braking system
940831	Title: Analysis of traction control systems augmented by limited slip differentials Title: Consideration of lateral and longitudinal vehicle stability by function enhanced brake and stability control system
940832	
940834	Title: Automated software verification supporting ABS-TCS safety design
940836	Title: A computer investigation of the performance potential of an advanced brake controller Title: Braking regulation of a vehicle, application and comparison of control algorithms of unstable or pseudo-stable fast systems
940837	
940861	Title: The chassis of the new Porsche 911 Carrera
940862	Title: Side load springs as a solution to minimize adverse side loads acting on the McPherson strut
940863	Title: Development of the semi-active suspension system based on the Sky-hook damper theory
940864	Title: Simulation and evaluation of semi-active suspensions
940865	Title: Motion control of the vehicle with an active suspension system

940866	Title: Advanced hydraulic suspension—Ride simulation using a 3- dimensional vehicle model
940867	Title: Magnetic power steering assist system—MAGNASTEER
940869	Title: A nonlinear parametric model of an automotive shock absorber
940870	Title: Comparison of three active chassis control methods for stabilizing yaw moments Title: Factoring nonlinear kinematics into new suspension design: a CAE approach to vehicle roll dynamics
940871	
940872	Title: The influences of chassis geometric characteristics on vehicle dynamic performances
940984	Title: Regenerative active suspension on rough terrain vehicles
950025	Title: Laser ride height measurement/calibration system
950027	Title: Error analysis of center-of-gravity measurement techniques
950030	Title: In-vehicle accelerator system performance measurement machine
950138	Title: Hydroplaning and accident reconstruction
950170	Title: High-fidelity road/tire interaction models for real time simulation
950171	Title: Low cost driving simulation for research, training and screening applications
950172	Title: A survey of mid-level driving simulators
950173	Title: An overview of the DRI driving simulator
950197	Title: Determination of the drag factor of a fairing-equipped motorcycle
950198	Title: Study on improving the motorcycle high speed stability using a rear wheel self-steering system
950200	Title: Study of motorcycle handling characteristics and rider feeling during lane change
950303	Title: A study on the effects of the active yaw moment control
950304	Title: Emulating the lateral dynamics of a range of vehicles using a four-wheel-steering vehicle Title: An investigation of the effects of roll control on handling and stability of passenger vehicles during severe lane change maneuvers
950305	
950306	Title: Analysis of simple rollover metrics
950307	Title: A study of vehicle class segregation using linear handling models
950308	Title: An overview of the HVE vehicle model
950309	Title: The design of a vehicle inertia measurement facility
950310	Title: Validation of flat surface roadway technology
950311	Title: Tire modeling for low-speed and high-speed calculations
950312	Title: Tire modeling requirements for vehicle dynamics simulation

950313 Title: The effects of tire cornering stiffness on vehicle linear handling performance  
Title: Modeling of dynamic characteristics of tire lateral and longitudinal force responses to dynamic inputs

950314 Title: The effects of light-vehicle design parameters in tripped- rollover maneuvers—A statistical analysis using an experimentally validated computer model

950315 Title: Performance of four-wheel-steering vehicles in lane change maneuvers

950316 Title: The application of pulse input techniques to the study of tire lateral force and self-aligning moment dynamics in the frequency domain

950317 Title: ABS and relative crash risk under different roadway, weather and other conditions

950353 Title: Speed from skids: A modern approach

950354 Title: Nonconservation of momentum during impact

950355 Title: Autonomous vehicle control system using an image processing sensor

950470 Title: Fuzzy logic employed in an autonomous ICC vehicle

950472 Title: Yaw rate sensor for vehicle dynamics control system

950537

950580 Title: Integrated electro-hydraulic power steering system with low electric energy consumption

950581 Title: Analysis and reduction of power steering noise during static steering operation

950583 Title: H-infinity control for Lancia Thema full-active suspension system  
Title: Optimum design of engine and body mounts at total system level using unconstrained minimization

950584 Title: Development of a multi-link beam rear suspension for front- wheel-drive cars

950585

950586 Title: Demonstration of an automotive semi-active suspension using electrorheological fluid

950587 Title: The characteristic of the shock force induced in the switchable damper during its mode change

950588 Title: A new class of smart automotive active suspensions using piezoceramic actuation

950623 Title: A survey of automobile aeroacoustic activities in Germany

950624 Title: The influence of vehicle elements to aspiration wind noise

950625 Title: The aero-acoustic wind tunnel of Stuttgart Univ.

950626 Title: ABCD—An improved coast down test and analysis method

950627 Title: On-road aerodynamic drag measurements compared with wind tunnel data

950628 Title: Numerical investigation of vehicle aerodynamics with overlaid grid system  
Title: Practical aerodynamic simulations (CD,CL,CdYM) using a turbulence model and a 3rd-order upwind scheme

950629

950631	Title: Reducing splash and spray of trucks and passenger cars
950632	Title: Drag forces experienced by 2, 3 & 4-vehicle platoons at close spacings
950633	Title: Shape study for a low-air-resistance air deflector—The second report
950757	Title: ABS5.3: the new and compact ABS5 unit for passenger cars
950758	Title: ROADRUNNER—Real-time simulation in anti-lock brake system development
950759	Title: VDC, the vehicle dynamics control system of Bosch
950760	Title: Smart booster—New key element for brake systems with enhanced function potential
950761	Title: Effective active safety to reduce road accidents
950762	Title: Intelligent braking for current and future vehicles
950775	Title: Electromechanical suspension for combat vehicles
950790	Title: Braking system quality for customer satisfaction
950791	Title: Analysis and optimization of disk brake cooling via computational fluid dynamics
950792	Title: The brake system of the new 7-series BMW with electronic brake and wheel slip control
	Title: The effect of regenerative braking on the performance and range of the AMPhibian II Hybrid Electric Vehicle
950957	
950969	Title: Braking behaviour in emergencies
	Title: Automatic target acquisition autonomous intelligent cruise control (AICC): driver comfort, acceptance, and performance in highway traffic
950970	
950972	Title: Correlation of driver confidence and dynamic measurements and the effect of 4WD
950995	Title: A new multi-component-wind-tunnel-balance for automotive wind tunnels
950996	Title: Ground effect simulation for full-scale cars in the Pininfarina wind tunnel
950997	Title: Turbulence experienced by road vehicles under normal driving conditions
950999	Title: Automobile model scale wind-tunnel test by means of aeronautical wind-tunnel
	Title: Influence of plenum dimensions on drag measurements in 3/4- open-jet automotive wind tunnels
951000	
951048	Title: Processing of tire force/moment data
951049	Title: Tire pressure warning system for passenger car applications
951050	Title: Analysis of wheel lateral runout in dynamic balancing
951051	Title: A tire side force model by artificial neural network
	Title: Critical suspension relationships and their influence on transient behavior of performance vehicles
951059	
951063	Title: Optimization of active and passive suspensions based on a full car model

960173	Title: Modeling assumptions for realistic multibody simulations of the yaw and roll behavior of heavy trucks
960176	Title: Verification of vehicle parameters for use in computer simulation
960177	Title: Modeling and simulation of driver/vehicle interaction
960178	Title: Modeling, characterization and simulation of automobile power steering systems for the prediction of on-center handling
960179	Title: Requirements of a tire model for practical cornering simulations of vehicles
960180	Title: A model for combined tire cornering and braking forces
960181	Title: Nonlinear tire force estimation and road friction identification: field test results
960182	Title: Tire force and moment processor
960183	Title: Sprung/unsprung mass properties determination without vehicle disassembly
960184	Title: Lateral/directional stability of tow dolly type combination vehicles
960254	Title: Ride, handling & overall chassis development of GM Impact Electric Vehicle
960255	Title: Efficiency considerations in the General Motors Impact electric vehicle ride, handling, and steering function
960482	Title: Vehicle handling analysis using linearization around non-linear operating conditions
960483	Title: Vehicle handling responses using stability derivatives
960484	Title: The effect of normal force variation on the lateral dynamics of automobiles
960485	Title: Improvement of vehicle directional stability for transient steering maneuvers using active brake control
960486	Title: Simulation for the development of the Bosch-VDC
960487	Title: Vehicle stability control in limit cornering by active brake
960521	Title: Nonlinear vehicle performance simulation with test correlation and sensitivity analysis
960647	Title: A primer on the reconstruction and presentation of rollover accidents
960652	Title: Vehicle traction experiments on snow and ice
960653	Title: Locked-wheel car braking in shallow water
960671	Title: On the correction of interference effects in open-jet wind tunnels
960672	Title: The influence of ground simulation and wheel rotation on aerodynamic drag optimization—Potential for reducing fuel consumption
960673	Title: Development of pneumatic aerodynamic concepts for control of lift, drag and moments plus lateral/directional stability of automotive vehicles
960674	Title: Comparing static and dynamic testing techniques for the crosswind sensitivity of road vehicles

960675 Title: Preliminary investigation of the influence of a ground-plane boundary layer on the aerodynamic characteristics of road vehicle models tested over a fixed ground

960676 Title: Measurement of wake flow fields, including reverse flow, of scale vehicle models using a new 13-hole pitot tube

960677 Title: Limited mesh refinement study of the aerodynamic flow field around a car-like shape, computational versus experimental fluid dynamics

960678 Title: Flow-field simulations of three simplified vehicle shapes and comparisons with experimental measurements

960679 Title: Simulating external vehicle aerodynamics with CARFLOW

960680 Title: A survey of improved techniques for analysis of 3D separated flows in automotive aerodynamics

960681 Title: Accuracy of drag predictions on cars using CFD—Effect of grid refinement and turbulence models

960682 Title: Unsteady flow over a half cylinder in proximity to a stationary and moving wall

960717 Title: The effect of various limited-slip differentials in front-wheel drive vehicles on handling and traction

960718 Title: Visco-Lok: A speed-sensing limited-slip device with high-torque progressive engagement

960727 Title: New valve technology for active suspension

960728 Title: Study of improving road-load simulation (Power steering dynamic testing system)

960730 Title: Approaches to minimizing side force of helical coil springs for riding comfort

960731 Title: Vehicle testing with flat surface roadway technology

960732 Title: The effects of bushing degradation on vehicle high mileage NVH performance

960733 Title: The application of CAE based robustness methodology to vehicle high mileage NVH degradation

960734 Title: Sensitivity analysis of chassis system to improve shimmy and brake judder vibration on steering wheel

960735 Title: An improved non-intrusive automotive suspension testing apparatus with means to determine the condition of the dampers

960747 Title: The steering of track laying vehicles

960750 Title: Independent suspension systems—Applications for specialized vehicles

960900 Title: On-road measurements of aerodynamic lift compared with wind tunnel data

960901 Title: An experimental investigation of wheel-well flows

960902 Title: Aeroacoustic and acoustic testing of automobile side windows

960903 Title: Recent aerodynamic improvements at the Lockheed Martin Low Speed Wind Tunnel  
Title: Elimination of a high-frequency narrow-band noise component in a low-noise automobile wind tunnel

960904

960905 Title: Aerodynamic evaluation of two Maglev designs  
Title: Aerodynamics overview of the Ground Transportation Systems (GTS) Project for heavy vehicle drag reduction

960906 Title: Experimental investigation of the Ground Transportation Systems (GTS) project for heavy vehicle drag reduction

960907

960908 Title: Wind tunnel investigation of an inflatable aerodynamic boattail for tractor-trailers

960909 Title: Cambered airfoil in ground effect—An experimental and computational study

960910 Title: The effect of aerodynamic drag changes on the exhaust emissions of a typical large car

960929 Title: Center-closed rotary servo valve for power steering

960930 Title: A novel steering vibration stabilizer  
Title: Handling enhancement due to an automotive variable ratio electric power steering system using model reference robust tracking control

960931

960933 Title: Procedure for the characterization of friction in automobile power steering systems

960934 Title: An energy-saving technique in an electro-hydraulic power steering (EHPS) system

960935 Title: Development of active suspensions using velocity feedback

960936 Title: Optimal preview control design of active and semi-active suspension systems including jerk

960937 Title: An experimental and theoretical study of a switchable damper  
Title: An on-line learning control of unsupervised neural network for a vehicle four wheel steering system

960938

960939 Title: Adaptive control strategies for a switchable damper suspension system  
Title: Electronic brake management EBM—Prospects of an integration of brake system and driving stability control

960954

960955 Title: Hybrid traction control system utilizing an engine inertia brake

960956 Title: Traction control improvement in all-wheel drive

960957 Title: Fuzzy logic approach to traction control design

960958 Title: Development of four solenoid ABS

960959 Title: Tire/ice friction values



960960 Title: Combination of Antilock Brake System (ABS) and Combined Brake System (CBS) for motorcycles  
960990 Title: Analysis of a series/fail-safe electro-hydrostatic brake system concept  
960991 Title: Electrohydraulic brake system—The first approach to brake-by-wire technology  
960992 Title: Design of a brake by wire system using OOA  
960993 Title: A study on low-frequency brake squeal noise

960996 Title: Study of tire model consisting of theoretical and experimental equations for vehicle dynamics analysis—Part 2: Under the condition of various velocity on the asphaltic road surface  
960997 Title: New tire design procedure based on optimization technique  
960999 Title: The role of steer and sideslip in the mechanism of slip angle  
961000 Title: Effects of surface anomalies and tire mechanics on ATV tire friction coefficients  
961001 Title: Laboratory tire wear simulation process using ADAMS vehicle model  
961009 Title: Longitudinal autonomous vehicle control utilizing access to electronic throttle control, automatic transmission and brakes  
961010 Title: Adaptive cruise control system aspects and development trends  
961037 Title: Active suspension in the automotive industry and the military  
970091 Title: Objective ride and handling goals for the 1997 Chevrolet Corvette  
970092 Title: Design synthesis of suspension architecture for the 1997 Chevrolet Corvette  
970093 Title: Evaluation and improvement of vehicle roll behavior  
970094 Title: Methodology for effective design evaluation and durability approval of car suspension components  
970095 Title: Field measurement of suspension parameters using strain measurement techniques as applied to two wheelers

970096 Title: Design and operation of a new vehicle suspension kinematics and compliance facility

970097 Title: Synthesis of chassis parameters for ride and handling on the 1997 Chevrolet Corvette  
970098 Title: Ride and handling development of the 1997 Chevrolet Corvette  
970100 Title: Optimization on Mac Pherson suspension with a spring  
970101 Title: Physical modeling of the hysteretic behavior of automotive shock absorbers

970102 Title: The investigation of design parameters influencing on on-center handling using AUTOSIM  
970103 Title: Effect of steering-housing rubber bushings on the handling responses of a vehicle

970104	Title: Elastokinematic analysis and optimization of suspension compliance characteristics
970105	Title: Vehicle dynamics simulation and suspension system design
970133	Title: Rotating wheels—Their impact on wind tunnel test techniques and on vehicle drag results
970134	Title: The influence of ground simulation on the aerodynamics of a simple car model
970135	Title: Assessing the effects of shear and turbulence during the dynamic testing of the crosswind sensitivity of road vehicles
970136	Title: Contemplation of nozzle blockage in open-jet wind tunnels in view of different "Q" determination techniques
970141	Title: Aerodynamic simulations by using discontinuous interface grid and solution adaptive grid method
970142	Title: Unstructured adaptive grid solution methodology for automotive aerodynamics
970170	Title: Driver car following behavior under test track and open road driving condition
970172	Title: Development of a scan laser radar
970279	Title: Driver behavior under a collision warning system—A driving simulator study
970378	Title: Theoretical consideration of relation of rear-wheel skid to steering inputs
970379	Title: Analysis of energy consumption for various power assisted steering systems
970381	Title: Steer dynamics in road simulation
970382	Title: Steering wheel angle sensor for vehicle dynamics control systems
970383	Title: Active suspension performance limits for cross-country operation
970384	Title: Twin-accumulator suspension system
970385	Title: An energy efficient electromagnetic active suspension system
970386	Title: Semiactive suspension: a mobility case study
970401	Title: Computational prediction of vehicle aerodynamic noise by integration of a CFD technique with Lighthill's acoustic analogy
970404	Title: Transient aerodynamic simulation in crosswind and passing an automobile
970405	Title: The sideways dynamic force on passenger cars in turbulent winds
970406	Title: Effects of on-road turbulence on automotive wind noise: comparing wind-tunnel and on-road tests
970408	Title: Coast down method in time-distance variables
970457	Title: Safety evaluation methodology for the intelligent cruise control field operational test
970458	Title: Tests characterizing performance of an adaptive cruise control system
970556	Title: Filter performance requirements for engine air induction systems

970557	Title: The Paper-Tire concept: a way to optimize tire force and moment properties
970558	Title: The behavior of tire-force model parameters under extreme operating conditions
970559	Title: A vehicle dynamics tire model for both pavement and off-road conditions
970560	Title: Variable dynamic testbed vehicle: dynamics analysis
970561	Title: Matching vehicle responses using the model-following control method
970562	Title: Methodology for validating the National Advanced Driving Simulator's vehicle dynamics (NADSdyna)
970563	Title: Experimental testing of a 1994 Ford Taurus for NADSdyna validation
970564	Title: Parameter measurement and development of a NADSdyna validation data set for a 1994 Ford Taurus
970565	Title: Validation results from using NADSdyna vehicle dynamics simulation
970566	Title: Evaluation of VDANL and VDM RoAD for predicting the vehicle dynamics of a 1994 Ford Taurus
970567	Title: Improving steering feel for the National Advanced Driving Simulator
970606	Title: Rollover detection
970684	Title: Development of a new 4WD system: all-mode 4WD
970811	Title: New low cost ABS concept for small cars
970813	Title: An overview of the LucasVarity Simulation Laboratory
970814	Title: Electromechanical brake system: Actuator control development system
970815	Title: Use of a hazard and operability study for evaluation of ABS control logic
970951	Title: A comparison of moment of inertia estimation techniques for vehicle dynamics simulation
970954	Title: Drag and steering effects of under inflated and deflated tires
970955	Title: Project Y.A.M. (Yaw Analysis Methodology) vehicle testing and findings, Victoria Police, Accident Investigation Section
970957	Title: An analytical assessment of the Critical Speed Formula
970958	Title: Validation of the EDVSM 3-dimensional vehicle simulator
970966	Title: Heavy truck wheel load distributions on the highway
971035	Title: Standard test procedure for passenger car brake components using operating strength
971036	Title: New chances for the drum brake through electronically controlled self-energizing
971037	Title: Electronic control canceling system for a disc brake noise
971038	Title: Analysis of disc brake squeal
971039	Title: Computational flow analysis of brake cooling

971040 Title: Thermal state of automotive brakes after braking on the road and on the roll-stand  
971056 Title: Topsy—A modular chassis parameter measurement system  
971057 Title: A programmable steering machine for vehicle handling tests  
971058 Title: Handling analysis with vehicle dynamics simulator  
971059 Title: Simulation in the development of ASMS  
971060 Title: The effects of motorcycle behavior of the moment of inertia of the crankshaft

971061 Title: An adaptive control model for lateral path following with closed-loop handling simulations  
971062 Title: Comparison of ideal vehicle lane-change trajectories  
Title: Control system for single wheel station heavy tracked vehicle active electromagnetic suspension  
971087 Title: Laboratory testing of active electromagnetic near constant force suspension (NCFS) concept on subscale four corner, full vehicle test-rig  
971088 Title: The development of vehicular powertrain system modeling methodologies: philosophy and implementation  
971089 Title: A multibody approach to modeling tire longitudinal and lateral flexibility  
971099 Title: Validation of a FEA tire model for vehicle dynamic analysis and full-vehicle real-time proving ground simulations  
971100 Title: An inductively coupled method for remote tire pressure sensing  
971103 Title: Measurement of 3D tire deformation, force, moment, and contact pressure  
971104

971105 Title: Effects of complicate tread element geometry and loading conditions on thin film wet traction  
Title: A computationally efficient method to analyze to analyze viscous hydroplaning of pneumatic tires  
971106 Title: Development of the quick response tandem brake booster  
971110 Title: Improved wheel speed and slip determination considering influences of wheel-suspension dynamics and tire dynamics  
971117

971122 Title: Application of neural networks in the estimation of tire/road friction using the tire as sensor

971124 Title: Development of compact, low-cost, lightweight, high-performance cruise control unit  
971128 Title: Infrared technology for ""ACC"" and future advanced applications  
971147 Title: Formulas for estimating vehicle critical speed from yaw marks—A review  
971148 Title: Vehicle critical speed formula—Values for the coefficient of friction: a review

980011 Title: The driver model and identification of its parameters

980021 Title: Modeling of vehicle rollover and evaluation of occupant injury potential using MADYMO

980022 Title: Characteristics of soil-tripped rollovers

980030 Title: The aerodynamic performance of automotive underbody diffusers

980031 Title: A parametric study on the ground effect of a simplified car model

980036 Title: The use of CFD to predict the aerodynamic characteristics of simple automotive shapes

980038 Title: Accuracy in computational aerodynamics—Part 2: base pressure  
Title: Aerodynamic optimization of the Opel Calibra ITC racing car using experiments and computational fluid dynamics

980040 Title: Rollover simulation based on a nonlinear model

980208 Title: Delta-V analysis from crash test data for vehicles with post-impact yaw motion

980219 Title: Vehicle dynamics and motion simulation versus experiment

980220 Title: 3-Dimensional simulation of vehicle response to tire blowouts

980221

980222 Title: A low-cost, PC-based driving simulator for prototyping and hardware-in-the-loop applications

980223 Title: Driving simulation

980224 Title: Modeling and simulation of a 6x6 military troop/cargo transport vehicle

980226 Title: Vehicle handling assessment using a combined subjective-objective approach

980227 Title: Evaluation of vehicle/driver performance using genetic algorithms

980228 Title: Effects of loading on vehicle handling  
Title: A combined active-steering, differential-braking yaw rate control strategy for emergency maneuvers

980230

980231 Title: Development and validation of an optimized emergency lane-change trajectory

980233 Title: Chevrolet C5 Corvette vehicle dynamic control system  
Title: New driving stability control system with reduced technical effort for compact- and medium-class passenger cars

980234

980235 Title: VDC systems development and perspective

980236 Title: Furthering the evolution of function and performance for ABS systems

980237 Title: Smart algorithm for a tire pneumatic pressure monitor embedded in ABS program

980238 Title: Controlled brake component development process

980240 Title: ABS braking performance and steering input

980241	Title: Automatic valuation and verification of ABS controllers by using a hardware-in-the-loop simulation
980242	Title: Control of wheel dynamics
980243	Title: A robust lumped-parameter tire model developed for real-time simulation
980244	Title: Hardware-in-the-loop simulation for ABS
980245	Title: Calculating experimental technique on choosing the components and algorithms of anti-blocking system functioning in the air brake system
980247	Title: A new control strategy for anti-lock braking systems
980248	Title: An investigation of the use of a new nonlinear control strategy for integration of active suspension and anti-lock braking systems
980249	Title: Effect of tire characteristics on the simulation of vehicle straight ahead motion
980251	Title: Modeling of rolling resistance test data
980252	Title: Tire modeling for vertical properties by using experimental modal parameters
980253	Title: A model of tire enveloping properties and its application on modeling of automobile vibration systems
980254	Title: Simulations of tire cornering properties in non-steady-state conditions
980255	Title: Rolling resistance of tires—An analysis of heat generation
980256	Title: Evaluation of tire wear performance
980257	Title: Self-supporting tire performance criteria and testing
980258	Title: Tire pressure warning system
980259	Title: A study on the chrome platability of cast aluminum wheels
980260	Title: Tire radial vibrations at high speed of rolling
980275	Title: Total vehicle vibration isolation (TVVI) for automotive and other applications
980369	Title: Vehicle braking on steep down grades: field experiment results
980392	Title: The aerodynamic forces induced on a passenger vehicle in response to a transient cross-wind gust at a relative incidence of 30°
980394	Title: A comparison of on-road aerodynamic drag measurements with wind-tunnel data from Pininfarina and MIRA
980398	Title: ""CDaero""—A parametric aerodynamic drag prediction tool
980399	Title: Aerodynamic design considerations of a Formula 1 racing car
980487	Title: The continued design and development of the University of California, David FutureCar
980591	Title: Innovative methodology for brake torque and residual brake torque measurement
980593	Title: Study on thermoplastic deformation for one-piece brake disks

980594 Title: A study of the mechanism causing high-speed brake judder  
980595 Title: Influence of material selection on stresses in ventilated brake discs  
980597 Title: A study on disc brake squeal using finite element methods  
980598 Title: Conditions of frictional contact in disk brakes and their effects on brake judder  
980600 Title: Modeling and control of an electromechanical disk brake  
980601 Title: Development of the brake assist system  
980602 Title: Development of hydraulic booster unit for active brake control  
980604 Title: Fault diagnosis of steering system for advanced vehicle control systems  
980606 Title: An adaptive cruise control using wheel torque management technique  
980615 Title: Development of a scanning laser radar for ACC  
980616 Title: Development of a headway distance control system  
980660 Title: Dynamic ride quality investigation for passenger car  
980825 Title: Automotive performance optimization

980852 Title: A field operational test of adaptive cruise control: system operability in naturalistic use  
980853 Title: Development of a collision avoidance system  
980855 Title: The Ohio State University automated highway system demonstration vehicle  
980897 Title: Suspension kinematics and compliance—Measuring and simulation  
Title: The improvement of handling performances through the sensitivity analysis validated by the  
980898 K&C test

980899 Title: Research on the dynamics of flexible multibody system of passenger car suspension

980900 Title: Vehicle chassis/suspension dynamics analysis—Finite element model versus rigid body model  
980901 Title: Design of lightweight suspension component using CAE

980902 Title: The application of experimental design method to brake-induced vehicle vibrations  
980903 Title: Chassis system integration approach for vehicle high mileage NVH robustness  
Title: A comparison of controller designs for an active, electromagnetic, off-road vehicle suspension  
980924 system traveling at high speed  
Title: High-resolution, computer-based modeling, simulation, and validation of a truck/trailer  
980925 combination model

981077 Title: The advantages of using standard vehicle dynamics procedures and analysis programs

981109	Title: Brake-by-wire without mechanical backup by using a TTP-communication network
981113	Title: Analysis and optimization of vehicle steering system
981115	Title: Development of active rear steer system applying H-infinity-synthesis
981116	Title: Control of electric power steering systems
981117	Title: Development of electronic-controlled power steering system
981118	Title: Performance of limited bandwidth active suspension based on a half-car model
981119	Title: Semiactive suspension: a field testing case study
981120	Title: Analysis on benefits of an adaptive Kalman filter active vehicle suspension
981121	Title: Preview control of active vehicle suspensions based on a state and input estimator
981168	Title: New approach for vehicle system NVH analysis—Part I: concept and vibration analysis
981172	Title: Estimating lateral stability region of a nonlinear 2 degree-of-freedom vehicle
981182	Title: A review of the wind conditions experienced by a moving vehicle
981190	Title: Powertrain and brake modeling of the 1994 Ford Taurus for the National Advanced Driving Simulator
SAE International Fall Fuels and Lubricants Meeting and Exhibition	
1999-01-3612	Title: Traction behavior under extreme conditions
2001-01-3652	Title: The Society of Automotive Engineers Clean Snowmobile Challenge 2001—Summary and results
2001-01-3654	Title: The design and implementation of Kettering University's entry into the 2001 Clean Snowmobile Challenge
SAE International Off-Highway and Powerplant Congress and Exposition	
1999-01-2783	Title: Simulation of the forwarder dynamics
1999-01-2784	Title: Wide tires, narrow tires
1999-01-2786	Title: Dynamic simulation techniques for steering of tracked agricultural and forestry vehicles
1999-01-2854	Title: System identification of an electrohydraulic steering system
2000-01-2552	Title: The SAE Clean Snowmobile Challenge 2000—Summary and results
2000-01-2574	Title: 1998 Polaris Indy Trail: An entry by Minnesota State University, Mankato in the "Clean Snowmobile Challenge 2000"
2000-01-2596	Title: Optimization of the tractive performance of four-wheel-drive tractors—Correlation between analytical predictions and experimental data
2000-01-2629	Title: Some aspects on modeling of the moving forest machines
2000-01-2635	Title: Development of KUBOTA new utility M Series tractors



2000-01-2652	Title: Adapting the off-highway truck body volumetric process to real-world conditions
730769	Title: A reliability oriented approach to the design of off-highway steering systems
740663	Title: An introduction to electric trailer brake systems
740678	Title: Shock absorbers: an integral part of recreational vehicle developments
750806	Title: Load-sensitive hydrostatic steering—a new approach
760637	Title: Designing the brake system—Step by step
760655	Title: Proportional braking for large trucks in mountain mine service—Some aspects of design
770704	Title: Computer simulation of tractor ride for design evaluation
770705	Title: Tractor ride comfort package
780777	Title: Brake testing and lining evaluation of large off-highway mining trucks
	Title: Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain
780789	
800995	Title: Load sensitive steering for energy savings
801020	Title: Agricultural tractor chassis suspension system for improved ride comfort
801023	Title: Off-road vehicle ride: review of concepts and design evaluation with computer simulation
810925	Title: Improvements in crawler tractor traction
810988	Title: Emergency steering—which system is best?
831382	Title: Load sense steering design considerations
841057	Title: Nonlinear lateral stability analysis of road vehicles using Liapunov's second method
841058	Title: Three-wheeled ATV—a no-suspension rigid rider system, Part I: modeling and parameter values
	Title: Three-wheeled ATV—a no-suspension rigid rider system, Part II: applications—handling and ride
841059	
841107	Title: Suspension designs to improve tractor ride: I. passive seat suspension
841108	Title: Suspension designs to improve tractor ride: II. passive cab suspension
841144	Title: Ride and shake study of a light truck vehicle by using test data based computer modal synthesis
841154	Title: Networked microcomputer automatic steering system
851491	Title: Multi-mode electrohydraulic steering system for off road vehicles
851530	Title: Simulation of agricultural tractor-trailer system stability
881304	Title: Optimization of dynamic vehicle response

881306	Title: Designing forest machines for better ride with computer simulation
881312	Title: Dynamic longitudinal stability characteristics of skid-steer loaders
891886	Title: Steering motion analysis of tractor-trailer systems
891887	Title: Road-vehicle directional response studies using a general-purpose simulation methodology
901589	Title: Performance of a vision-based tractor guidance system
901630	Title: The Kubota's new ""bi-speed turn"" mechanism
901658	Title: Open-loop, fixed-control simulation of a vehicle undergoing steering and acceleration maneuvers
901660	Title: Steering behavior analysis of articulated vehicle with multi-wheel steering system
911834	Title: Hydraulic brake control system for off-highway vehicles
911862	Title: Traction of low pressure pneumatic tires in deformable terrain
911872	Title: An investigation of a road-vehicle directional behavior under steady-state conditions
911873	Title: Tire structural parameter analysis for road noise using an accurate FEM model
911875	Title: Dynamic analysis of scooter (two wheeler) for ride evaluation
921650	Title: Vision assisted tractor guidance for agricultural vehicles
921652	Title: Dynamic stability of a cotton picker during its unloading cycle
921662	Title: Independent versus axle suspension for on/off road vehicles
921750	Title: Resilient band vehicle suspension systems
932390	Title: Performance of dyna-bite traction system
932415	Title: Axle failures induced by incorrect steering geometry for a four-wheel steer, off-highway vehicle
932463	Title: Development of comprehensive suspension tester for large off-highway dump trucks
941701	Title: Traction and stability tests of a highway mower
941740	Title: Using virtual reality to test vehicle steering systems
941815	Title: Off-highway vehicle ride comfort analysis
952094	Title: Traction, compaction, yield and operating cost of alternative tire/traffic systems
952095	Title: Soil compaction from front and rear tires of an MFWD tractor
952097	Title: Comparison of two and four track machines to rubber tire tractors in prairie soil conditions
952120	Title: A computer-aided system for evaluation of off-road wheeled vehicle mobility

952121	Title: Kinematical models and emulation of multi-axle steering of off-highway vehicles with multi-axle
952131	Title: Performance and use of tracks in agriculture—A review
952159	Title: Combine tractive devices: Effects on soil compaction
961761	Title: On the maneuverability and stability of turf work trucks
961817	Title: Development of an updated brake chatter test for anti-brake chatter transmission/hydraulic fluids
972731	Title: Belt and tire tractive performance
972755	Title: A study on the meshing theory and cutting technology for rack and pinion steering gears with variable ratio
981977	Title: Application of Taguchi method to simulation of articulated vehicle steering dynamics
981979	Title: Computer modeling and simulation of a tracked log skidder with different grapple configurations
981982	Title: Off-highway mine haul truck dynamics simulation
982006	Title: Development of KUBOTA lawn & garden tractors manufactured in the USA
982007	Title: Simulation of the loading dynamics of a log forwarder
SAE International Truck and Bus Meeting and Exposition	
1999-01-3705	Title: A multibody approach with graphical user interface for simulating truck dynamics
1999-01-3706	Title: Emulating the behavior of truck drivers in the longitudinal control of headway
1999-01-3707	Title: Improved heavy vehicle wheel dynamics model using MATLAB/SIMULINK
1999-01-3708	Title: A finite element modeling approach for stability analysis of partially filled tanker trucks
1999-01-3709	Title: Review of parameters affecting stability of partially filled heavy-duty tankers
1999-01-3713	Title: Verification of heavy truck EBS and ABS using MatrixX hardware in the loop tools
1999-01-3714	Title: Simulation-based ABS algorithm development
1999-01-3728	Title: Optimal suspension damping for improved driver- and road- friendliness of urban buses
1999-01-3729	Title: Anti-slosh damper design for improving the roll dynamic behavior of cylindrical tank trucks
1999-01-3730	Title: Optimal tank geometry to enhance static roll stability of partially filled tank vehicles
1999-01-3731	Title: Design of a multi-link independent front suspension for Class A motor homes
1999-01-3732	Title: Dynamics and roll stability of a loaded Class 8 tractor- livestock semi-trailer

1999-01-3756	Title: Light-truck aerodynamic simulations using a lattice gas-based simulation technique
1999-01-3757	Title: Influences of non-steady-state tire cornering properties on automobile shimmy
1999-01-3758	Title: Analysis of automotive handling based on tire cornering properties in non-steady-state conditions
1999-01-3764	Title: Steering performance evaluation—Heavy-duty highway tractor wander test
1999-01-3765	Title: Steering system effects on on-center handling and performance
1999-01-3781	Title: Heavy- and medium-duty vehicle suspension-related performance issues and effective analytical models for system design guide
2000-01-3413	Title: On the distribution of braking forces in road braking
2000-01-3415	Title: A simulation program for the braking characteristics of tractor-semitrailer vehicle
2000-01-3418	Title: Developing an artificial neural network for modeling heavy vehicle rollover
2000-01-3431	Title: Truck tire force and moment in cornering - braking - driving on ice, snow, and dry surfaces
2000-01-3432	Title: On vehicle testing of Michelin new wide-base tire
2000-01-3433	Title: Performance improvement of on-center regulation for large-sized vehicles
2000-01-3434	Title: Synthesis of multi-axle steering system of heavy-duty vehicle based on probability of steering angle
2000-01-3437	Title: Vehicle dynamics simulation for handling optimization of heavy trucks
2000-01-3446	Title: Flexibility effects of control arms and knuckle on suspension—A finite element versus rigid body comparative analysis
2000-01-3447	Title: New suspension design for heavy duty trucks: Dynamic considerations
2000-01-3448	Title: Uniform suspension response for commercial vehicles
2000-01-3449	Title: Development of a new front air suspension and steer axle system for on- highway commercial vehicles
2000-01-3450	Title: The design of a Sterling heavy truck for the Pike's Peak International Hillclimb
2000-01-3451	Title: Implementation of a practical semi-active damper on a combat support vehicle
2000-01-3452	Title: Composite compression C springs and light independent suspension for trucks, buses, cars and trains
2000-01-3460	Title: Influencing dynamic handling response with manipulation of advanced all- wheel-drive systems
2000-01-3464	Title: Traction control applications in engine control
2000-01-3475	Title: Commercial drivers' subjective rating of stopping capability of air-braked vehicles
2000-01-3477	Title: Directional dynamics of a partly-filled tank vehicle under braking and steering

2000-01-3478	Title: Directional response and yaw stability of articulated log-hauling trucks
2000-01-3480	Title: Parametric study of leveling system characteristics on roll stability of trailing arm air suspension for heavy trucks
2000-01-3481	Title: Heavy vehicle stability notification and assistance
2000-01-3492	Title: A method determining the dynamic rollover threshold of commercial vehicles
2000-01-3499	Title: Numerical simulation on the aerodynamic characteristics around corner vane of a heavy-duty truck
2000-01-3500	Title: External flow analysis of a truck for drag reduction
2000-01-3501	Title: Computational simulations for the external aerodynamics of heavy trucks
2000-01-3507	Title: Freightliner/MeritorWABCO roll advisory and control system
2000-01-3508	Title: CamLaster™—A new drum brake for North America
2000-01-3515	Title: A new generation of vibration isolation for the conventional truck cab
2000-01-3517	Title: Comfort and vibration study of a tractor and trailer combination using simulation and experimental approaches: The jumping ride behavior
2000-01-3526	Title: A unique approach to all-wheel-drive vehicle dynamics model simulation and correlation
2001-01-2708	Title: Development of a 4-point-air cab suspension system for conventional heavy trucks
2001-01-2709	Title: Field testing of proposed tridem truck/triaxle trailer configurations
2001-01-2712	Title: An end-user's guide to commercial vehicle measurements: Interpreting dynamic and structural tests outside the lab
2001-01-2727	Title: Roll over prevention based on state-of-the-art ABS systems
2001-01-2728	Title: Improved drum brake performance prediction considering coupled thermal and mechanical effects
2001-01-2729	Title: Approach of debugging control laws of ABS combined with hardware-in-the-loop simulation and road experiment
2001-01-2731	Title: Self-optimizing brake control design for commercial vehicles
2001-01-2732	Title: The effect of kingpin inclination angle and wheel offset on medium-duty truck handling
2001-01-2733	Title: Feasibility of modifying an existing semi-trailer air suspension into an anti-rollover system
2001-01-2734	Title: Validation of ADAMS® models of two USMC heavy logistic vehicle design variants
2001-01-2742	Title: Experimental and computational investigation of Ahmed body for ground vehicle aerodynamics

2001-01-2743	Title: A two-dimensional external aerodynamics tool (EAT) for simulating airflow around tractor-trailer combinations
2001-01-2744	Title: The impact of aerodynamics on vehicle performance in a Formula SAE racing style vehicle
2001-01-2747	Title: Evaluation of brake system performance for transit bus operation and maintenance
2001-01-2764	Title: Development of a multi-body dynamic model of a tractor- semitrailer for ride quality prediction
2001-01-2765	Title: Cab suspensions for trucks: Development process and available tools
2001-01-2766	Title: Effect of heavy vehicle suspension designs on dynamic road loading—A comparative study
2001-01-2780	Title: Application of modal analysis and operating deflection shapes on the study of trucks and buses dynamic behavior
2001-01-2782	Title: Co-simulation of driveline torque bias controls
2001-01-2787	Title: International Truck and Engine High Performance Vehicle driveability—Ride and handling
2001-01-2797	Title: A ride comfort design sensitivity analysis of a city bus
811288	Title: Wet disc brakes for off-highway vehicles
821259	Title: The transient directional response of full trailers
821260	Title: A computer-based study of the yaw/roll stability of heavy trucks characterized by high centers of gravity
821263	Title: The importance of maintaining air brake adjustment
821268	Title: Rolling resistance measurements of new and retreaded truck tires
821285	Title: The wind tunnel testing of heavy trucks to reduce fuel consumption
821286	Title: Aspects of over-the-road testing of truck aerodynamic drag reducing devices
841714	Title: Commercial vehicle ride comfort
861942	Title: Tractor and trailer brake system compatibility
861961	Title: Anti-lock braking system (ABS) with integrated drive slip control (ASR) for commercial vehicles
861962	Title: State of the art and future prospects of braking control in Europe
861964	Title: Truck brakes —European style
861975	Title: The effect of Ackerman steering correction upon front tire wear of medium duty trucks
861977	Title: Bosch-ABS —designed for the user

861978	Title: Progress of the WABCO ABS for commercial vehicles in the North American market
872240	Title: Analysis and control of brake noise
872266	Title: Front wheel suspension for buses and coaches
872270	Title: Electronically controlled steering systems for line haul vehicles
872271	Title: Developing ABS for freightliner vehicles
872272	Title: Traction control (ASR) for commercial vehicles, a further step towards safety on our roads
872274	Title: 1988 Chevrolet/GMC full-size pickup truck aerodynamics
872278	Title: Aerodynamics and fuel economy—on-highway experience
872285	Title: Active four-wheel-steering design for the blazer XT-1
881822	Title: A new hardware and safety concept for ABS/ASR systems
881823	Title: The braking performance of commercial vehicles while cornering with and without an anti-lock system
881869	Title: Measurement of heavy vehicle suspension roll-stability properties and a method to evaluate overall stability performance
881878	Title: Stability of a one box type vehicle in a cross-wind—An analysis of transient aerodynamic forces and moments
892480	Title: Influence of tank design factors on the rollover threshold of partially filled tank vehicles
892482	Title: A review of active suspension control for on and off-highway vehicles
892499	Title: Directional dynamics considerations for multi-articulated, multi- axled heavy vehicles
892501	Title: A contribution on the application of downhill driving brakes
892502	Title: Heavy duty vehicle dynamics related to braking, steering and tyres—Swedish research and proposals by VTI
892504	Title: Heavy vehicle braking—U.S. versus Europe
892508	Title: Heavy duty truck dynamics and simulations
892520	Title: High performance steering for the 90s
892532	Title: Experimental aerodynamic drag reduction studies on bus coaches of India
902200	Title: Disc brakes for heavy duty trucks in Japan
902201	Title: The compatibility of air disc brakes and S-cam brakes installed on combination vehicles
902202	Title: Comparison of pneumatic and hydraulic disk brakes for heavy duty application
902203	Title: The introduction of air disc brakes for trucks and buses in Europe

902204	Title: A new range of air disc brakes for 17.5", 19.5"and 22.5"wheels (commercial vehicle class 4 to 8)
902205	Title: Air disc brakes realization during the development and application introduction
902206	Title: Performance comparison of drum and disc brakes for heavy duty commercial vehicles
902210	Title: A new ABS with intergral automatic traction control for air-braked trucks and buses
902212	Title: SAE J1922 data link control of electronic engine torque applied to automatic traction control
902224	Title: Bendix four-wheel antilock brake system for four-wheel drive vehicles
902248	Title: Truck brake block swell, growth, and thermal instability
902249	Title: New developments in drum brake analysis
902250	Title: Extended service 16.5 inch brake design for heavy commercial vehicles
902257	Title: Development of a medium-duty truck with a mechanical linkage type four-wheel steering system
902258	Title: A multi-axle steering system for straight trucks
902265	Title: Development of directional stability criteria for an early warning safety device
902266	Title: Ride comfort optimization for commercial trucks
902267	Title: Influence of vehicle body torsional stiffness on vehicle roll characteristics of medium-duty trucks
902268	Title: The influence of tire deformation on ride comfort of a truck
902269	Title: Increased stability of twin trailers
902283	Title: Control of active suspension with parameter uncertainty and non-white road unevenness disturbance input
902284	Title: Methods for eliminating jerk and noise in semi-active suspensions
912670	Title: Road vehicle dynamics of log hauling combination trucks
912671	Title: Electronically controlled air suspension (ECAS) for commercial vehicles
912672	Title: Semi-active heave and roll control for large off-road vehicles
912673	Title: The optimum designing of riding comfort by application of "Taguchi methods"
912674	Title: Inertial damping—A vehicle suspension design tool
912675	Title: Development of a slow-acting active control pneumatic suspension system for heavy vehicle applications
912677	Title: Measurement of radial truck tire dry cornering characteristics
912678	Title: The handling characteristics of European intercity buses
912686	Title: Directional dynamics of a tractor-semitrailer with self- and forced-steering axles



912687 Title: Advanced commercial vehicle steering systems, variants and development trends

912688 Title: Tractive torque steer for on-center stability/handling augmentation with controlling differential gear for large-sized vehicles—A comparison with passive rear-axle steer

912690 Title: Steer-restoring torque controlled driving simulator for developing steering road feel

912693 Title: Optimum ackerman for improved steering axle tire wear on trucks

912714 Title: Non-linear FEM analysis of the trunnion suspension system

912716 Title: Objectives of the New Zealand heavy vehicle brake code

922426 Title: Roll-stability performance of heavy-vehicle suspensions

922427 Title: The directional response of log hauling truck - doglogger

922432 Title: Bogie spring fatigue damage—A function of static displacement

922442 Title: Evaluation of braking strategies on downgrades

922443 Title: Air brake inspections of five-axle combinations

922448 Title: Jacobs new engine brake technology

922450 Title: The present status of electro-magnetic retarders in commercial vehicles

922451 Title: Engine braking systems and retarders—An overview from an European standpoint

922452 Title: ZF retarder in commercial vehicles

922453 Title: Demand criteria on retarders

922454 Title: State of development and future prospects of hydrodynamic brakes for trucks and busses

922455 Title: Permanent-magnet-type-retarder in commercial vehicles

922464 Title: Dynamic pavement loads and tests of road-friendliness for heavy vehicle suspensions

922465 Title: Relative performance of wide base and conventional truck tires

922473 Title: Optimal active vehicle suspensions with full state feedback control  
Title: Performance of a fail-safe active suspension with limited state feedback for improved ride quality and reduced pavement loading in heavy vehicle

922474 Title: MVMA/NHTSA/SAE heavy truck round robin brake test

922484 Title: Brake by wire for commercial vehicles

922489 Title: Electronic control of braking systems - legislation (ECE R.13)

922490 Title: A low cost tracked vehicle steering system design providing pivot turning and infinitely variable turning radius

922500 Title: Development of a simulation for assessment of ride quality of tractor semi-trailers

932940

932945 Title: Operating vehicle roll stability  
932946 Title: Directional stability analysis of logging trucks by a yaw roll model  
932947 Title: Steering control for roll mode damping augmentation in tall road vehicles  
932948 Title: The McLaughlin Truck/Trailer Control System  
Title: Estimation of dynamic rollover threshold of commercial vehicles using low speed experimental data  
932949  
932965 Title: Brake squeal—A self-exciting mechanism with constant friction

932976 Title: Aerodynamic and mechanical drag characteristics of light trucks and truck-trailer combinations  
932990 Title: Influence of heavy vehicle suspensions on ABS performance  
932991 Title: Uniformity of truck tire/wheel assemblies on original equipment  
932993 Title: Configuration of heavy trucks with liftable axles  
932994 Title: Characterizing the road-damaging dynamics of truck tandem suspensions

933007 Title: Effect of rear-axle steering on vehicle controllability and stability of a medium-duty truck  
933008 Title: Analysis of intelligent suspension systems for commercial vehicles  
Title: Compliance steer and road holding of rigid rear axle for enhancing the running straightness of large sized vehicles  
933009  
933010 Title: Truck development trends in ride behavior

933011 Title: Optimizing medium duty truck ride and handling: A cooperative effort with truck designers  
933029 Title: Tire deflection influence on rear-axle torque  
933032 Title: Benefits and effects of central tire inflation on USDA Forest Service vehicles

933043 Title: Simulation and investigation of shimmy on a light truck independent front suspension  
933045 Title: Active roll control of a semi-trailer  
933048 Title: Investigations into alternative suspension for commercial vehicles  
933055 Title: Central tire inflation: USDA Forest Service implementation plans and their impact  
Title: Operational testing of central tire inflation systems proves the benefits of low tire pressure in logging operations  
933056  
933059 Title: General inflation from a truck tire perspective  
933065 Title: Studies of hydrostatic steering system of armored fighting vehicles  
942248 Title: Application of the Eaton®Tire Pressure Control System to the commercial truck  
942258 Title: A new method development to predict brake squeal occurrence

942289 Title: The new air brake system technology  
942297 Title: Real-time simulation of trucks for hardware-in-the-loop applications  
Title: Results and economical aspects of simulation systems evaluating the braking and steering performance of commercial vehicles  
942300  
  
942304 Title: Optimization of a tractor-semitrailer passive suspension using covariance analysis technique  
942305 Title: A computer simulation analysis of road dynamics of log hauling trucks  
942309 Title: Optimization of passive and semi-active heavy vehicle suspensions  
942310 Title: Four-wheel-steering system for medium-duty trucks  
942325 Title: Optimal control of electromagnetic brake retarders  
942333 Title: A robust backward steering controller design for combination vehicles  
952589 Title: Ride comfort and roll characteristics of tandem-axled trucks  
952590 Title: Investigation of a limited-state active suspension for articulated heavy vehicles  
952600 Title: All-wheel and four-wheel-drive vehicle systems  
  
952636 Title: Heavy truck suspension damper performance for improved road friendliness and ride quality  
952637 Title: Computer-based analysis of the dynamic performance of log hauling trucks  
  
952638 Title: Development of heavy vehicle dynamic stability analysis model using MATLAB/SIMULINK  
  
952639 Title: Influence of partition location on the braking performance of a partially-filled tank truck  
952644 Title: A survey of 4WD traction control systems and strategies  
952647 Title: Passenger car 4WD—Systems for light trucks?  
952663 Title: American Automobile Manufacturers Association heavy truck brake tire test  
  
952671 Title: Commercial vehicle brake testing—Part 1: Visual inspection versus performance-based test  
Title: Commercial vehicle brake testing—Part 2: Preliminary results of performance-based test program  
952672  
952673 Title: Development of fuzzy logic, ABS control for commercial trucks  
952680 Title: All-wheel steering system for heavy truck applications  
952685 Title: Truck dynamics—Theory into practice  
Title: Reduction of dynamic pavement loads of heavy vehicles through optimal suspension damping and axle vibration absorber  
962148  
962151 Title: Improving ride quality on the cab suspension of a heavy-duty truck

962152	Title: Heavy truck suspension dynamics: methods for evaluating suspension road friendliness and ride quality
962153	Title: Truck tire wet traction: effects of water depth, speed, tread depth, inflation, and load
962154	Title: Directional performance and yaw stability of articulated combination trucks
962173	Title: An investigation into the aerodynamics of the external flow around a bus (Daewoo model)
962181	Title: Gain/phase control front steering, rear axle steering and compliance steer control for trucks and buses
962182	Title: Reducing driving fatigue by improving heavy vehicle directional stability
962183	Title: Rear axle steering system for trucks and buses
962184	Title: Study of a novel control method of a steering system for a radio-controlled truck
962185	Title: Commercial vehicles with intelligent rear axle steering systems
962190	Title: Steering column/instrument panel NVH analysis in full-size pickup trucks using MSC/NASTRAN—Part 1
962195	Title: Advanced collision avoidance demonstration for heavy-duty vehicles
962207	Title: Air suspension factors in driveline vibration
962215	Title: An overview of heavy vehicle brake system test methods
962221	Title: The development of the ZQ8 sport handling suspension for General Motor's mid-size pickup trucks
962222	Title: Dynamic simulation of suspension mechanisms using the displacement matrix method
973184	Title: Radar-based adaptive cruise control for truck applications
973189	Title: Reliable determination of multi-axial road loads and tire deformations on buses and heavy trucks for the design and proof out
973190	Title: The correlation of heavy vehicle performance measures
973191	Title: A generalized theoretical model of tire cornering properties in steady-state condition
973192	Title: A theoretical model of non-steady-state tire cornering properties and its experimental validation
973205	Title: Power consumption in ride of a combat support vehicle slow-active suspension
973206	Title: Low bandwidth active cab suspension
973207	Title: Optimized ride control of heavy vehicles with intelligent suspension control
973224	Title: A review of European steering column technology

973226 Title: Effect of torsion bar size and rotary valve type on steering correction requirements for heavy truck power steering

973228 Title: Design of permanent magnet type compact ECB retarder

973230 Title: A study of ride analysis of medium trucks with varying the characteristics of suspension design parameters

973231 Title: TORSILASTIC®rubber heavy vehicle suspensions

973232 Title: The application of CAE in the development of air suspension beam

973248 Title: Anti-lock braking systems for North American buses, coaches and motorhomes

973260 Title: Road-induced longitudinal wheel forces in heavy vehicles

973261 Title: Prediction of steady-state roll threshold for loaded flat bed trailers—Theory and calculation

973263 Title: Detection of dynamic roll instability of heavy vehicles for open-loop rollover control

973264 Title: The advantages of a simple approach modeling heavy vehicle handling

973267 Title: The need for a new pavement roughness index; RIDE

973282 Title: The compatibility of tractor/trailer combinations during braking maneuvers

973283 Title: EBS and tractor trailer brake compatibility

982746 Title: Example utilization of truck tire characteristics data in vehicle dynamics simulations

982747 Title: Effectiveness of the slip circle, ""COMBINATOR,"" model for combined tire cornering and braking forces when applied to a range of tires

982748 Title: Force and moment properties of a small sample of tire specifications: Drive, steer, and trailer with evolution from new to naturally worn-out to retreaded considered

982773 Title: Analysis of the handling and ride comfort characteristics of a medium bus in a single lane change maneuver

982781 Title: Electronic Braking System EBS—Status and advanced functions

982782 Title: Vehicle stability control for trucks and buses

982786 Title: Handling performance and lateral stability of articulated logging trucks

982790 Title: Basis for logical control of circumferential wheel forces of highway trucks for improved traction and fuel efficiency

982819 Title: Vehicle stability and control research for U.S. comprehensive truck size and weight (TS&W) study

982830 Title: Judging the stopping capability of commercial vehicles using the results of a performance-based brake force measurement

982834	Title: The impact of scrub radius on sport utility vehicle handling
982839	Title: Durability approval of leaf springs under operational loading
982843	Title: Investigations on independent suspensions on trucks
SAE Motorsports Engineering Conference and Exposition	
2000-01-3537	Title: Fundamental parameter design issues which determine race car performance
2000-01-3547	Title: The new lola cars 50% scale aerodynamic wind tunnel
2000-01-3548	Title: A full-scale wind tunnel test of a short track race car
2000-01-3549	Title: Advances in wind tunnel aerodynamics for motorsport testing
2000-01-3550	Title: Road simulation for NASCAR vehicles at the Langley full-scale tunnel
2000-01-3554	Title: The effect of chassis stiffness on race car handling balance
2000-01-3556	Title: The mulsanne straight at Le Mans-the early years of a 5.6-km open-chamber wind tunnel
2000-01-3562	Title: Developments of a method for lap time simulation Title: Lap time simulation: comparison of steady state, quasi-static and transient racing car cornering strategies
2000-01-3563	Title: Racecar optimization and tradeoff analysis in a parallel computing environment
2000-01-3564	Title: Motorcycle-rider servomechanism steering theory
2000-01-3565	Title: An investigation into the effects of suspension tuning on the cornering of a Winston Cup Race car
2000-01-3569	Title: Sensitivity of cornering speeds to banking and aerodynamics
2000-01-3570	Title: How to work race tires on NASCAR ovals
2000-01-3571	Title: Balanced suspension
2000-01-3572	Title: Racing motorcycle design process using physical and virtual testing methods
2000-01-3576	Title: Traction control for a Formula 1 race car—Conceptual design, algorithm development, and calibration methodology
942475	Title: Modern wind tunnel testing of Indy cars
942497	Title: Application of computational methods to the aerodynamic development of a prototype race car
942498	Title: Use of simulation to tune race car dampers
942504	Title: Modeling steady-state suspension kinematics and vehicle dynamics of road racing cars. Part I: theory & methodology
942505	Title: Modeling steady-state suspension kinematics and vehicle dynamics of road racing cars. Part II: examples
942506	

942520	Title: The effect of deck spoilers and two-car interference on the body pressures of race cars
942521	Title: Aerodynamic development of a successful NASCAR Winston Cup race car
942522	Title: The development and manufacture of a roof-mounted, aero flap system for race car applications
942523	Title: Lateral response of a Formula SAE race car
942535	Title: Off track—Frame and suspension tuning (FAST)
942537	Title: Simulation and analysis of suspension and aerodynamic interactions of race cars
942549	Title: High performance braking—The design and application of liquid-cooled brake calipers
962517	Title: Measurement of Formula One car drag forces on the test track
962518	Title: The aerodynamic optimization of a successful IMSA GT race car
962519	Title: Aerodynamics and possible alleviation of top fuel dragster "Blow Over"
962520	Title: Effects of wing adjustment mechanisms on the aerodynamics of an open wheel racing car model
962528	Title: Analysis and correlation using lap time simulation—Dodge Stratus for the North American Touring Car Championship
962529	Title: A tool for lap time simulation
962530	Title: Dynamic simulation of late model car performance on a dirt track
962531	Title: Effects of suspension geometry and stiffness asymmetries on wheel loads during steady cornering for a Winston Cup car
962545	Title: A comparison of modern racing dampers
962553	Title: Semi-active strategies for racing car suspension control
983020	Title: Design of a single seater racing car suspension system
983022	Title: Evaluation of motorcycle maneuverability with the optimal maneuver method
983023	Title: Suspension system testing and tuning with the use of a four-post rig
983028	Title: Understanding race tires
983030	Title: The grip evaluation and management device
983032	Title: The effects of local spring perch flexibility on suspension geometry of a Winston Cup race car
983033	Title: Short-long arm suspension system non-linearities and analysis
983040	Title: Development of race car testing at the Langley full-scale tunnel
983041	Title: Viscous-flow simulation of an open-wheel race car
983042	Title: Experimental study of open-wheel race-car front wings

983051	Title: The effects of chassis flexibility on roll stiffness of a Winston Cup Race Car
983085	Title: Asymmetric roll centers
983089	Title: Innovative computer technology in professional motorsports
SAE Noise and Vibration Conference and Exposition	
2001-01-1402	Title: Assessment of a vehicle concept finite-element model for predicting structural vibration
2001-01-1441	Title: Transfer path analysis of structure-borne shock absorber noise in a passenger car
2001-01-1445	Title: A stiffness optimization procedure for automobile rubber mounts
2001-01-1447	Title: Application of elastomeric components for noise and vibration isolation in the automotive industry
2001-01-1469	Title: Optimal bonding thickness for vehicle stiffness
2001-01-1474	Title: A virtual car: Prediction of sound and vibration in an interactive simulation environment
2001-01-1481	Title: Chassis dynamometer simulation of tire impact response
2001-01-1528	Title: Tire and car contribution and interaction to low-frequency interior noise
2001-01-1554	Title: The application of direct body excitation toward developing a full-vehicle objective squeak and rattle metric
2001-01-1569	Title: Some factors in the subjective evaluation of laboratory simulated ride
2001-01-1571	Title: Factors affecting truck driver's perceived comfort
2001-01-1572	Title: Road vibration investigation using the Ford vehicle vibration simulator
2001-01-1579	Title: Polytopic modeling and state observer synthesis for suspension system with variant damping and stiffness
2001-01-1580	Title: Polytopic bilinear system modeling and nonlinear H (infinity) control design for semi-active suspension system
2001-01-1581	Title: Optimizing vehicle response in a combined ride and handling full car model by optimal control strategies
2001-01-1582	Title: Robust analysis of vehicle suspension system uncertainty
2001-01-1598	Title: Effects of air and road surface temperature on tire pavement noise on an ISO 10844 surface
2001-01-1599	Title: A dynamometer for automobile brake squeal study
2001-01-1600	Title: A new analysis method for brake squeal—Part I: Theory for modal domain formulation and stability analysis
2001-01-1602	Title: Analysis of instabilities and power flow in brake systems with coupled rotor modes



2001-01-1603	Title: Advances in complex eigenvalue analysis for brake noise
2001-01-1604	Title: Investigation of disc brake squeal via sound intensity and laser vibrometry
2001-01-1605	Title: Disc brake rotor squeal suppression using dither control
2001-01-1606	Title: Operational spindle load estimation methodology for road NVH applications
2001-01-1607	Title: Steering wheel vibration diagnosis
870960	Title: Interactive design of off-highway vehicle suspensions
911043	Title: Suspension related low frequency rear drum brake noise
972027	Title: Brake judder analysis: case studies
972058	Title: Identification and elimination of steering systems squawk noise
SAE Passenger Car Meeting and Exposition	
770803	Title: Development of a front-wheel-drive car
770851	Title: Transversely apportioned brake system
770884	Title: A simplified method for the identification of vehicle suspension parameters
780620	Title: Vehicle controllability in a pavement/shoulder edge climb maneuver
780660	Title: Army experience with silicone brake fluids
780661	Title: Silicone brake fluids—show us the hardware!
780662	Title: Conventional brake fluids—state of the art
790724	Title: An effective aerodynamic program in the design of a new car
790737	Title: The concept of suspension and steering system for the new Datsun 280ZX
790738	Title: A speed sensitive variable assistance power steering system
800795	Title: Automobile braking energy, acceleration and speed in city traffic
800845	Title: Subjective evaluation and vehicle behavior in lane-change maneuvers
800847	Title: Static stability and control of the automobile utilizing the moment method
800848	Title: Effects of crosswinds on vehicle response—full-scale tests and analytical predictions
810792	Title: Handling, braking, and crash compatibility aspects of small, front-wheel drive vehicles
810807	Title: Comparison of transient response test procedures for motor vehicles
810808	Title: Experimental examination of transient directional response
820743	Title: Analysis of part-time four-wheel drive vehicle
820762	Title: Theoretical model of a vehicle using vector analysis and Euler's rigid body dynamics
820764	Title: Transient dynamic behaviour of a vehicle by mathematical simulation
830980	Title: The development of the suspension system used on the Nissan Stanza—a new front-wheel-drive compact car

830981 Title: Ride and handling of a European car: the Renault 9  
830996 Title: Improvements in rack and pinion steering gears  
830998 Title: Power steering "road feel"  
831000 Title: The aerodynamic development of the Probe IV advanced concept vehicle  
831002 Title: Engineering development of the Probe IV advanced concept vehicle  
831029 Title: Methods for predicting passenger vibration discomfort  
831045 Title: Front and rear suspension of the new Mercedes model W201  
841186 Title: Double-wishbone suspension for Honda Prelude  
841187 Title: Variation ranges for the handling characteristics of today's passenger cars  
841189 Title: The development of a high-performance suspension for the new Nissan 300ZX  
841197 Title: Electronic-controlled power steering  
841198 Title: Development of an electronically-controlled power steering system  
841199 Title: New rack and pinion steering design and manufacturing technology  
841237 Title: A vehicle design optimization problem associated with rolling resistance reduction  
841240 Title: Ultra low aspect ratio, high performance tire development  
Title: New products developed to improve the isolation qualities of automobile suspension systems:  
851651 "Torsidyne" and "Atadyne"  
Title: Electronically controlled shock absorber system used as a road sensor which utilizes super  
851652 sonic waves  
861349 Title: Electronically controlled torque split system for 4WD vehicles  
861370 Title: Directional control of 4WD passenger cars —a study by computer simulation  
Title: Mercedes-Benz 4MATIC, an electronically controlled four-wheel drive system for improved  
861371 active safety  
861384 Title: Braking performance of motorcyclists with integrated brake systems  
Title: Acceleration and braking test data comparisons using SAE recommended practices with two  
871949 different instrument schemes  
881769 Title: A state adaptive control algorithm for vehicle suspensions  
881770 Title: Development of electronically controlled air suspension system  
881772 Title: A totally integrated vehicle electronic control system  
881774 Title: Development of a new multi-link rear suspension  
891977 Title: Controllability and stability aspects of actively controlled 4WS vehicles  
Title: Development of ""super HICAS""—A new rear wheel steering system with phasereversal  
891978 control  
901707 Title: Development of ABS and traction control computer

901731	Title: Nonlinear dynamic response of four wheel steering automobiles to combined braking and steering commands in collision avoidance maneuvers
901732	Title: The equations of lateral motion of the two degree-of-freedom model of the four-wheeled road vehicle
901733	Title: Optimal stability of vehicle control
901734	Title: Four parameter evaluation method of lateral transient response
901746	Title: Design of two-dregree-of-freedom control system for active front-and-rear-wheel steering
901747	Title: Development of the full active suspension by Nissan
901748	Title: Integrated control system between active control suspension and four wheel steering for the 1989 CELICA
901762	Title: 1991 Chrysler mini van AWD vehicle system
911900	Title: Development of new Toyota electronic modulated suspension two concepts for semi-active suspension control
911901	Title: Dynamic simulation of suspension load for passenger car with low profile tires
911902	Title: Advice control strategy for improved handling and stability
911903	Title: Digital active suspension
911921	Title: Magic numbers in design of suspensions for passenger cars
911922	Title: Development of four wheel steering system using yaw rate feedback control
911925	Title: An atlas of linkages for independent suspensions
911926	Title: Transient and steady state performance characteristics of a two-wheel-steer and four-wheel steer vehicle model
911927	Title: Multipurpose models of vehicle dynamics for controller design
911928	Title: The effects of suspension stiffness on handling responses
911944	Title: Stability and maneuverability problems of ATV's
911945	Title: A safer ATV
SAE West Coast International Meeting	
861113	Title: Vehicle ride quality —measurement and analysis
SAE Worldwide Passenger Car Conference and Exposition	
922104	Title: Vehicle dynamics synthesis techniques for the integration of chassis systems in total vehicle design
922128	Title: The development tool for the real-time fuzzy control system on a vehicle
922140	Title: Passive versus active and semi-active suspension from theory to application in North American industry

922141	Title: An experimental procedure for estimating ride quality for passive and semi-active suspension automobiles
922142	Title: An optimisation technique for vehicle suspensions with the vibration dose value as optimisation parameter
922143	Title: Integrated vehicle development
932884	Title: Study of tire model consisting of theoretical and experimental equations for vehicle dynamics analysis
932913	Title: Kinematic and dynamic comparison of double A-arm and McPherson strut suspension systems
Small Engine Technology Conference and Exposition	
1999-01-3276	Title: Motorcycle suspension development using ride comfort analysis with a laboratory test system
Subzero Engineering Conditions Conference and Exposition	
920018	Title: Effect of texture of iced road surface on characteristics of ice and snow tires
920019	Title: Mobility of four track steering vehicles on snow surface
940092	Title: New information on the differences between studded and unstudded tires
940112	Title: Experimental car and trailer axle cornering characteristics at low friction conditions
Vehicle Navigation and Instrument Systems	
912871	Title: Neural network approaches for lateral control of autonomous highway vehicles
Vehicle Thermal Management Systems Conference and Exhibition	
931084	Title: Heat flow on disc brakes
West Coast International Meeting and Exposition	
800906	Title: A test facility for the measurement of heavy vehicle suspension parameters
820973	Title: The dynamic response of multiply-articulated truck combinations to steering input
831162	Title: Improved stability and handling of truck combinations with the double drawbar dolly
831163	Title: The influence of size and weight variables on the roll stability of heavy duty trucks
X International Conference on Vehicle Structural Mechanics and CAE	
971510	Title: Brake squeal analysis by using nonlinear transient finite element method
971512	Title: Road load simulation using effective road profile
971513	Title: A hybrid road loads prediction method with full vehicle dynamic simulation
971519	Title: Computational issues in the simulation of incompressible flows using the lattice Boltzmann method