

Bernd Heibing | Metin Ersoy (Eds.)

Chassis Handbook

Fundamentals, Driving Dynamics, Components,
Mechatronics, Perspectives

ATZ



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Rolf Isermann



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Chassis Handbook Bernhard Heiing, Metin Ersoy, 2010-11-09 In spite of all the assistance offered by electronic control systems the latest generation of passenger car chassis still relies on conventional chassis elements With a view towards driving dynamics this book examines these conventional elements and their interaction with mechatronic systems First it describes the fundamentals and design of the chassis and goes on to examine driving dynamics with a particularly practical focus This is followed by a detailed description and explanation of the modern components A separate section is devoted to the axles and processes for axle development With its revised illustrations and several updates in the text and list of references this new edition already includes a number of improvements over the first edition *Control of*

Variable-Geometry Vehicle Suspensions Balazs Nemeth, Peter Gaspar, 2023-07-08 This book provides a thorough and fresh treatment of the control of innovative variable geometry vehicle suspension systems A deep survey on the topic which covers the varying types of existing variable geometry suspension solutions introduces the study The book discusses three important aspects of the subject robust control design nonlinear system analysis and integration of learning and control methods The importance of variable geometry suspensions and the effectiveness of design methods implemented in the autonomous functionalities of electric vehicles functionalities like independent steering and torque vectoring are illustrated The authors detail the theoretical background of modeling control design and analysis for each functionality The theoretical results achieved through simulation examples and hardware in the loop scenarios are confirmed The book highlights emerging ideas of applying machine learning based methods in the control system with guarantees on safety performance The authors propose novel control methods based on the theory of robust linear parameter varying systems with examples for various suspension systems Academic researchers interested in automotive systems and their counterparts involved in industrial research and development will find much to interest them in the eleven chapters of *Control of Variable Geometry Vehicle Suspensions*

12th International Munich Chassis Symposium 2021 Peter Pfeffer, 2022-04-18 The increasing automation of driving functions and the electrification of powertrains present new challenges for the chassis with regard to complexity redundancy data security and installation space At the same time the mobility of the future will also require entirely new vehicle concepts particularly in urban areas The intelligent chassis must be connected electrified and automated in order to be best prepared for this future Contents Driving Simulators Innovative Chassis Systems Automated Driving and Racing New Methods and Systems Suspension and Ride Comfort All Wheel Steering Future Brake Systems and Testing Technology Innovations in Tires and Wheels Target audiences Automotive engineers and chassis specialists as well as students looking for state of the art information regarding their field of activity Lecturers and instructors at universities and universities of applied sciences with the main subject of automotive engineering Experts researchers and development engineers of the automotive and the supplying industry Publisher ATZ live stands for top quality and a high level of specialist

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Durability of Springs Vladimir Kobelev, 2017-08-07 This book offers an advanced treatise of the mechanics of springs with focus on the springs for automotive industry It demonstrates new and original results for the optimization of helical springs as well the design of disk springs and thin walled springs and presents the new results for creep and relaxation of springs made of steel under high static loads The fatigue of springs and weak link concept for cyclically loaded springs are enlightened The closed form solutions of advanced problems allow the deeper understanding of spring mechanics and optimization of energy harvesters

Konzeption und Entwicklung eines Preview-Systems durch Backend-Daten zur Verbesserung der Komforteigenschaften eines Fahrzeugs mit geregelten Vertikaldynamiksystemen Andreas Noll, 2023-06-26 Im Mittelpunkt der vorliegenden Arbeit steht die konkrete Umsetzung einer vorausschauenden adaptiven pr adaptiven Fahrwerksregelung im Automobilbereich mit dem Schwerpunkt der Schwarmdatengenerierung und verarbeitung von Streckendaten zur Fahrbahnpr diktion im Fahrzeug Hierzu wird ein serientaugliches cloudbasiertes pr adaptives Regelungskonzept entwickelt welches die vorhandenen aktiven und semi aktiven Fahrwerkregelsysteme mit den generierten pr diktiven Streckendaten kombiniert Ziel ist es vorhandene Vertikaldynamiksysteme in allen Fahrzeugen bzw einer ausgew hlten Fahrzeugflotte durch vorausschauende Streckeninformationen zu unterst tzen sodass diese im Vorfeld von Ereignissen entsprechende Ma nahmen einleiten k nnen Die Optimierung der Fahrwerksysteme erfolgt dabei durch pr adaptive Parametrierung des Regelgesetzes

Automotive Control Rolf Isermann, 2016-09-08 The introduction of mechatronic components for the powertrain steering and braking systems opens the way to automatic driving functions Together with internal and environmental sensors various driver assistance systems are going to be developed for improving driving comfort and safety Automatic driving control functions suppose a well designed vehicle behavior In order to develop and implement the software based control functions mathematical vehicle models for the stationary and dynamic behavior are required The book first introduces basic theoretically derived models for the tire traction and force transfer the longitudinal lateral roll and pitch dynamic behavior and related components like suspensions steering systems and brakes These models have to be tailored to allow an identification of the many unknown parameters during driving also in dependence of different road conditions velocity and vehicle load Based on these mathematical models drive dynamic control systems are developed for semi active and active suspensions hydraulic and electromechanical brakes including ABS traction and steering control Then driver assistance systems like adaptive cruise control ACC electronic stability control ESC electronic course control and anti collision control systems are considered The anti collision systems are designed and tested for emergency braking emergency steering and avoiding of overtaking accidents The book is dedicated to automotive engineers as well as to graduate students of mechanical electrical and mechatronic engineering and computer science

The Automotive Chassis Giancarlo Genta, Lorenzo Morello, 2019-12-24 This textbook draws on the authors experience gained by teaching courses for engineering students on e g vehicle mechanics vehicle system design and chassis design and on their practical experience as engineering designers for vehicle and chassis components at a major automotive company The book is primarily intended for students of automotive engineering but also for all technicians and designers working in this field Other enthusiastic engineers will also find it to be a useful technical guide The present volume The Automotive Chassis Volume 1 Component Design focuses on automotive chassis components such as the structure which is usually a ladder framework and supports all the remaining components of the vehicle the suspension for the mechanical linkage of the wheels the wheels and tires the steering system the brake system and the transmission system used to apply engine torque to the driving wheels This thoroughly revised and updated second edition presents recent developments particularly in brake steering suspension and transmission subsystems Special emphasis is given to modern control systems and control strategies

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