

CHASSIS DESIGN

Principles and Analysis

Based on previously
unpublished technical
notes by

**Maurice
Olley**



 WILLIAM F. MILLER AND DOUGLAS L. MILLER

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Chassis Design William F. Milliken, Douglas L. Milliken, Maurice Olley, 2002 Chassis Design Principles and Analysis is based on Olley's technical writings and is the first complete presentation of his life and work. This new book provides insight into the development of chassis technology and its practical application by a master. Many examples are worked out in the text and the analytical developments are grounded by Olley's years of design experience. Well illustrated with over 400 figures and tables as well as numerous appendices.

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The Automotive Chassis Giancarlo Genta, L. Morello, 2008-12-11 The aim of the book is to be a reference book in automotive technology as far as automotive chassis i.e. everything that is inside a vehicle except the engine and the body is concerned. The book is a result of a decade of work heavily sponsored by the FIAT group who supplied material together with other automotive companies and sponsored the work. The first volume deals with the design of automotive components and the second volume treats the various aspects of the design of a vehicle as a system.

The Automotive Chassis JörnSEN Reimpell, Helmut Stoll, Jürgen W. Betzler, 2001 This comprehensive overview of chassis technology presents an up to date picture for vehicle construction and design engineers in education and industry. The book acts as an introduction to the engineering design of the automobile's fundamental mechanical systems. Clear text and first class diagrams are used to relate basic engineering principles to the particular requirements of the chassis. In addition the 2nd edition of The Automotive Chassis has a new author team and has been completely updated to include new technology in total vehicle and suspension design including platform concept and four wheel drive technology.

The Automotive Chassis Giancarlo Genta, Lorenzo Morello, 2019-12-18 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 2 System Design focuses on the automotive chassis as a system providing readers with the knowledge needed to integrate the individual components described in Volume 1 in a complex system that satisfies customers.

expectations Special emphasis is given to factors influencing system performance including the influence of the powertrain on vehicle performance Conventional hybrid and electric powertrains are considered factors influencing vehicles handling performance factors influencing vehicles comfort performance and factors influencing vehicles stability and strategies for accident avoidance active safety In addition this second volume thoroughly covers topics that are usually neglected in other books about the automotive chassis such as the basics of vehicle aerodynamics internal combustion engines electric motors and batteries and mathematical modeling tools This thoroughly revised second edition has been updated to reflect the latest advances in electric and hybrid vehicles electronic control systems and autonomous driving

Automotive Chassis Engineering David C Barton, John D Fieldhouse, 2018-03-15 Written for students and practicing engineers working in automotive engineering this book provides a fundamental yet comprehensive understanding of chassis systems and requires little prior knowledge on the part of the reader It presents the material in a practical and realistic manner using reverse engineering as a basis for examples to reinforce understanding of the topics The specifications and characteristics of vehicles currently on the market are used to exemplify the theory s application and care is taken to connect the various topics covered so as to clearly demonstrate their interrelationships The book opens with a chapter on basic vehicle mechanics which include the forces acting on a vehicle in motion assuming a rigid body It then proceeds to a chapter on steering systems which provides readers with a firm understanding of the principles and forces involved under static and dynamic loading The next chapter focuses on vehicle dynamics by considering suspension systems tyres linkages springs dampers etc The chapter on chassis structures and materials includes analysis tools typically finite element analysis and design features that are used to reduce mass and increase occupant safety in modern vehicles The final chapter on Noise Vibration and Harshness NVH includes a basic overview of acoustic and vibration theory and makes use of extensive research investigations and practical experience as a means of addressing NVH issues In all subject areas the authors take into account the latest trends anticipating the move towards electric vehicles on board diagnostic monitoring active systems and performance optimisation The book features a number of worked examples and case studies based on recent research projects All students including those on Master s level degree courses in Automotive Engineering and professionals in industry who want to gain a better understanding of vehicle chassis engineering will benefit from this book

Automobile Chassis Design R. DEAN-AVERNS, 1965

Design and Analysis of Composite Structures for Automotive Applications Vladimir Kobelev, 2019-06-10 A design reference for engineers developing composite components for automotive chassis suspension and drivetrain applications This book provides a theoretical background for the development of elements of car suspensions It begins with a description of the elastic kinematics of the vehicle and closed form solutions for the vertical and lateral dynamics It evaluates the vertical lateral and roll stiffness of the vehicle and explains the necessity of the modelling of the vehicle stiffness The composite materials for the suspension and powertrain design are discussed and their mechanical

properties are provided The book also looks at the basic principles for the design optimization using composite materials and mass reduction principles Additionally references and conclusions are presented in each chapter Design and Analysis of Composite Structures for Automotive Applications Chassis and Drivetrain offers complete coverage of chassis components made of composite materials and covers elastokinematics and component compliances of vehicles It looks at parts made of composite materials such as stabilizer bars wheels half axes springs and semi trail axles The book also provides information on leaf spring assembly for motor vehicles and motor vehicle springs comprising composite materials Covers the basic principles for the design optimization using composite materials and mass reduction principles Evaluates the vertical lateral and roll stiffness of the vehicle and explains the modelling of the vehicle stiffness Discusses the composite materials for the suspension and powertrain design Features closed form solutions of problems for car dynamics explained in details and illustrated pictorially Design and Analysis of Composite Structures for Automotive Applications Chassis and Drivetrain is recommended primarily for engineers dealing with suspension design and development and those who graduated from automotive or mechanical engineering courses in technical high school or in other higher engineering schools The Automotive Chassis Giancarlo Genta, L. Morello, 2008-12-19 The aim of the book is to be a reference book in automotive technology as far as automotive chassis i e everything that is inside a vehicle except the engine and the body is concerned The book is a result of a decade of work heavily sponsored by the FIAT group who supplied material together with other automotive companies and sponsored the work The first volume deals with the design of automotive components and the second volume treats the various aspects of the design of a vehicle as a system

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