

MECHANICAL ENGINEERING SERIES

Giancarlo Genta  
Lorenzo Morello

# The Automotive Chassis

Volume 1: Components Design

 Springer



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Edition

# The Automotive Chassis Volume 1 Components Design

**Gijs Mom**



## **The Automotive Chassis Volume 1 Components Design:**

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Pia, Andrea Tonoli, 2011-03-04 The Automotive Body consists of two volumes The first volume produces the needful cultural background on the body it describes the body and its components in use on most kinds of cars and industrial vehicles the quantity of drawings that are presented allows the reader to familiarize with the design features and to understand functions design motivations and fabrication feasibility in view of the existing production processes The second volume addresses the body system engineer and has the objective to lead him to the specification definition used to finalize detail design and production by the car manufacturer or the supply chain The processing of these specifications made by mathematical models of different complexity starts always from the presentations of the needs of the customer using the vehicle and from the large number of rules imposed by laws and customs The two volumes are completed by references list of symbols adopted and subjects index These two books about the vehicle body may be added to those about the chassis and are part of a series sponsored by ATA the Italian automotive engineers association on the subject of automotive engineering they follow the first book published in 2005 in Italian only about automotive transmission They cover automotive engineering from every aspect and are the result of a five year collaboration between the Polytechnical University of Turin and the University of Naples on automotive engineering

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

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terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations [The evolution of automotive technology](#) Gijs Mom,2023-05-17 The idea of understanding the present through its history is based on two insights First it helps to know where a technology comes from what were its predecessors how did they evolve as a result of the continuous efforts to solve theoretical and practical problems who were crucial in their emergence and which cultural differences made them develop into divergent families of artifacts Second and closely related to the first insight how does a certain technology or system fit into its societal context its culture of mobility its engineering culture its culture of car driving its alternatives its opponents Only thus by studying its prehistory and its socio cultural context can we acquire a true grasp of a technology The Evolution of Automotive Technology A Handbook Second Edition covers one and a quarter century of the automobile conceived as a cultural history of its technology aimed at engineering students and all those who wish to have a concise introduction into the basics of automotive technology and its long term development ISBN 9781468605976 ISBN 9781468605969 ISBN 9781468605983 DOI 10 4271 9781468605976 2nd Edition [Advances in Italian Mechanism Science](#) Giuseppe Carbone,Alessandro Gasparetto,2018-10-29 This book constitutes the Proceedings of the Second International Conference of IFToMM ITALY held in Cassino Italy in 2018 The main topics of the workshop include Computational Kinematics Dynamics of Machinery Gearing and Transmissions Multibody Dynamics Mechatronics Mechanism Design Tribology Vibration Industrial and non Industrial Applications [Vehicle Dynamics](#) Reza N. Jazar,2013-11-19 This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering The contents in this book are presented at a theoretical practical level It explains vehicle dynamics concepts in detail concentrating on their practical use Related theorems and formal proofs are provided as are real life applications Students researchers and practicing engineers alike will appreciate the user friendly presentation of a wealth of topics most notably steering handling ride and related components This book also Illustrates all key concepts with examples Includes exercises for each chapter Covers front rear and four wheel steering systems as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text which provides a practical hands on approach [Optimal Lightweight Construction Principles](#) Federico Maria Ballo,Massimiliano Gobbi,Giampiero Mastinu,Giorgio Previati,2020-11-09 This book presents simple design paradigms related to lightweight design that are derived from an in depth and theoretically sound analysis based on Pareto theory It uses numerous examples including torsion and inflated tubes to fully explain the theories discussed Lightweight Construction Principles begins by defining terms in relation to engineering design and optimal design of complex mechanical systems It then discusses the analytical derivation of the Pareto optimal set before applying analytical formulae to optimal design of bent beams The book moves through numerous case studies of different beam and tube construction including beams subject

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