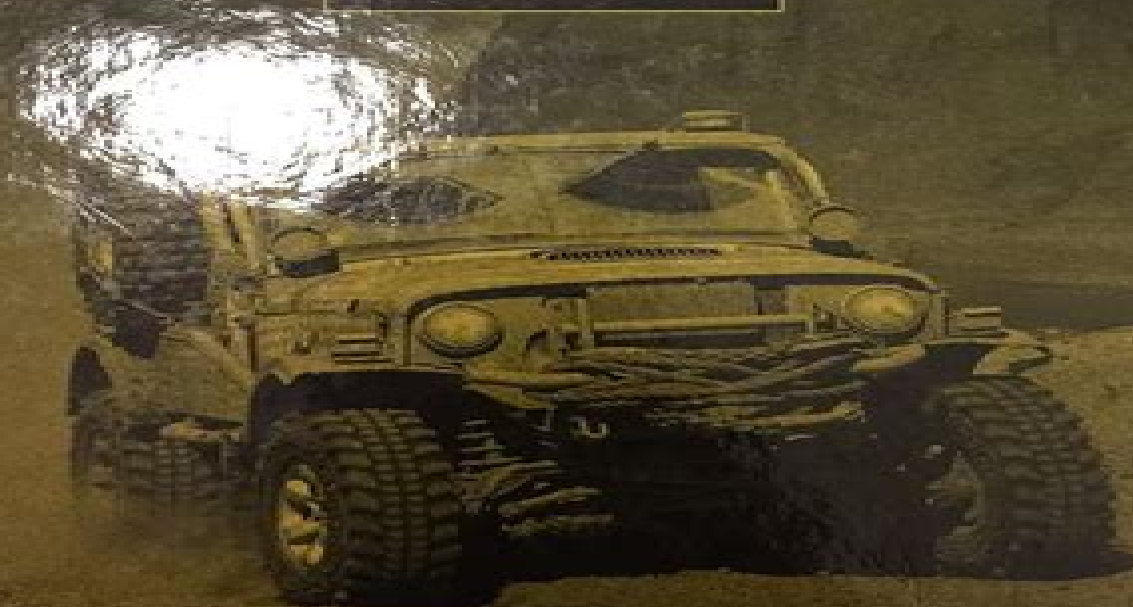


FOURTH EDITION

THEORY OF GROUND VEHICLES

J. Y. WONG



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Theory of Ground Vehicles J. Y. Wong, 2008-08-04 Technology Engineering Automotive Engineering for advancing ground vehicle mobility A standard text and reference for both the educational and professional communities Theory of Ground Vehicles gives aspiring and practicing engineers a fundamental understanding of the critical factors affecting the performance handling and ride essential to the development and design of ground vehicles In view of the growing concerns over environmental impact energy efficiency and safety this new Fourth Edition has been revised and expanded to address these issues and other developments in the field Retaining the contents and format of previous editions the Fourth Edition introduces new material to reflect recent advances in ground transportation technology including Computer aided methods for design and performance evaluation of off road vehicles and their practical applications Emissions and fuel economy Hybrid electric drives and fuel cells and their operating principles Selection of vehicle configurations for off road operations Road vehicle stability control ISO 2631 1 1997 and its applications to evaluating vehicle ride characteristics As in previous editions this book focuses on applying engineering principles to the analysis of vehicle behavior A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice With its broad coverage and pedagogical aids Theory of Ground Vehicles Fourth Edition remains the text of choice for students engineers and researchers wishing to master and apply basic theory to solve real world road and off road vehicle mobility problems

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presents updated and expanded coverage of the critical factors affecting the performance handling and ride essential to the development and design of road and off road vehicles Replacing internal combustion engines with zero emission powerplants in ground vehicles to eliminate greenhouse gas emissions for curbing climate change has received worldwide attention by both the vehicle industry and governmental agencies To enhance safety traffic flow and operating efficiency of road transport automated driving systems have been under active development With growing interest in the exploration of the Moon Mars and beyond research in terramechanics for guiding the development of extraterrestrial rovers has been intensified In this new edition these and other topics of interest in the field of ground vehicle technology are explored and technical data are updated New features of this edition include Expanded coverage of the fundamentals of electric drives hybrid electric drives and fuel cell technology Introduction to the classification and operating principles of the automated driving system and cooperative driving automation Applications of terramechanics to guiding the development of extraterrestrial rovers Elaboration on the approach to achieving the optimal operating efficiency of all wheel drive off road vehicles Introduction to updated ISO Standards for evaluating vehicle ride An updated and comprehensive text and reference for both the educational and professional communities Theory of Ground Vehicles Fifth Edition will prove invaluable to aspiring and practicing engineers seeking to solve real world road and off road vehicle mobility problems *Theory of Ground Vehicles* Jo Yung Wong,1978

Theory and Applications of Aerodynamics for Ground Vehicles T Yomi Obidi,2014-03-20 This book provides an introduction to ground vehicle aerodynamics and methodically guides the reader through the various aspects of the subject Those needing specific information or a refresher can easily jump to the material of interest There is a particular emphasis on various vehicle types passenger cars trucks trains motorcycles race cars etc However the book is focused on cars and trucks which are the most common vehicles in the speed range in which the study of ground vehicle aerodynamics is beneficial Readers will gain a fundamental understanding of the topic which will help them design vehicles that have improved aerodynamics this will lead to better fuel efficiency improved performance and increased passenger comfort The author s basic approach to the presentation of the material is complemented with review questions application questions exercises and suggested projects at the end of most of the chapters which helps the reader apply the information presented either in the classroom or for self study Aside from offering a solid understanding of ground vehicle aerodynamics the book also offers more thorough study of several key topics One such topic is car truck interaction when one vehicle usually the smaller one is overtaking the other There is a direct and instant benefit in terms of safety on the highway from understanding the forces at play when one vehicle passes the other in the same direction and sense Chapters examine Drag Noise and vehicle soiling Wind tunnels and road track testing Numerical methods Vehicle stability and control Vehicle sectional design Large vehicles trucks trailers buses trains Severe service and off road vehicles Race cars and convertibles Motorcycles Concept vehicles

Theory of Ground Vehicles. Second Edition J. Y. Wong,1993 *Driveline Systems of Ground Vehicles*

Alexandr F. Andreev, Viachaslau Kabanau, Vladimir Vantsevich, 2010-09-07 With this book Prof Dr Vantsevich brings a tremendous contribution to the field of Automotive Transmission and Driveline Engineering including his innovative methods for optimum driveline synthesis as well as his experience with the development of various hardware solutions from the basic limited slip differentials to the most sophisticated mechatronic systems Dr Ing Mircea Gradu Director Transmission and Driveline Engineering Head Virtual Analysis Tools Chrysler Group LLC Now that vehicles with four and more driving wheels are firmly ensconced in the consumer market they must provide energy fuel saving benefits and improved operational quality including terrain mobility traction and velocity properties turnability and stability of motion A first of its kind resource *Driveline Systems of Ground Vehicles Theory and Design* presents a comprehensive and analytical treatment of driveline research design and tests based on energy efficiency vehicle dynamics and operational properties requirements This volume addresses fundamental engineering problems including how to investigate the effect of different driveline systems on the properties of vehicles and how to determine the optimal characteristics of the driveline system and its power dividing units PDUs and design it for a specific vehicle to ensure high level of vehicle dynamics energy efficiency and performance The authors develop an analytical apparatus for math modeling of driveline systems that can be compiled from different types of PDUs They also introduce methodologies for the synthesis of optimal characteristics of PDUs for different types of vehicles Structured to be useful to engineers of all levels of experience university professors and graduate students the book is based on the R D projects conducted by the authors It explores intriguing engineering dilemmas such as how to achieve higher energy and fuel efficiency by driving either all the wheels or not all the wheels solve oversteering issues by managing wheel power distribution and many other technical problems *Theory and Applications of Aerodynamics for Ground Vehicles* T. Yomi Obidi, 2014 This best selling book provides an introduction to ground vehicle aerodynamics and methodically guides the reader through the various aspects of the subject Those needing specific information or a refresher can easily jump to the material of interest There is a particular emphasis on various vehicle types passenger cars trucks trains motorcycles race cars etc However the book is focused on cars and trucks which are the most common vehicles in the speed range in which the study of ground vehicle aerodynamics is beneficial Readers will gain a fundamental understanding of the topic

Driveline Systems of Ground Vehicles Alexandr F. Andreev, Viachaslau Kabanau, Vladimir Vantsevich, 2010-01-29 With this book Prof Dr Vantsevich brings a tremendous contribution to the field of Automotive Transmission and Driveline Engineering including his innovative methods for optimum driveline synthesis as well as his experience with the development of various hardware solutions from the basic limited slip differentials to the most sophisticated Vehicle Handling Dynamics Masato Abe, 2009-05-15 This is the first book to combine classical vehicle dynamics with electronic control The equation based presentation of the theory behind vehicle dynamics enables readers to develop a thorough understanding of the key attribute to both a vehicle's driveability and its active safety Supported by MATLAB tools the key areas that affect

vehicle dynamics are explored including tire mechanics the steering system vehicle roll traction and braking 4WS and vehicle dynamics vehicle dynamics by vehicle and human control and controllability As a professional reference volume this book is an essential addition to the resources available to anyone working in vehicle design and development Written by a leading authority in the field who himself has considerable practical experience the book has a unique blend of theory and practice that will be of immense value in this applications based field Get a thorough understand of why vehicles respond they way they do with a complete treatment of vehicle dynamics from theory to application Full of case studies and worked examples using MATLAB Simulink Covers all variables of vehicle dynamics including tire and vehicle motion control aspects human control and external disturbances

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