

T H E O R Y O F  
**Ground Vehicles**

Third Edition



**J. Y. Wong**

# Theory Of Ground Vehicles

**T Yomi Obidi**



## **Theory Of Ground Vehicles:**

**Theory of Ground Vehicles** J. Y. Wong, 2001-03-20 An updated edition of the classic reference on the dynamics of road and off road vehicles As we enter a new millennium the vehicle industry faces greater challenges than ever before as it strives to meet the increasing demand for safer environmentally friendlier more energy efficient and lower emissions products Theory of Ground Vehicles Third Edition 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 that meet these requirements 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 Covering a wide range of topics concerning the dynamics of road and off road vehicles this Third Edition is filled with up to date information including The Magic Formula for characterizing pneumatic tire behavior from test data for vehicle handling simulations Computer aided methods for performance and design evaluation of off road vehicles based on the author s own research Updated data on road vehicle transmissions and operating fuel economy Fundamentals of road vehicle stability control Optimization of the performance of four wheel drive off road vehicles and experimental substantiation based on the author s own investigations A new theory on skid steering of tracked vehicles developed by the author

*Theory of Ground Vehicles* J. Y. Wong, 2022-07-13 THEORY OF GROUND VEHICLES A leading and authoritative text for advancing ground vehicle mobility Theory of Ground Vehicles Fifth Edition 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

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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 **Theory of Ground Vehicles** Jo Yung Wong,1978

**Theory of Ground Vehicles** jo yung Wong,2007 Theory of Ground Vehicles. Second Edition J. Y. Wong,1993

*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 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

**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

Theory, Design, and Applications of Unmanned Aerial Vehicles A. R. Jha, Ph.D., 2016-11-18 This book provides a complete overview of the theory design and applications of unmanned aerial vehicles It covers the basics including definitions attributes manned vs unmanned design considerations life cycle costs architecture components air vehicle payload communications data link and ground control stations Chapters cover types and civilian roles sensors and characteristics alternative power communications and data links conceptual design human machine interface sense and avoid systems civil airspace issues and integration efforts navigation autonomous control swarming and future capabilities

**Thesaurus of Engineering and Scientific Terms** Engineers Joint Council, 1967

**Ground Vehicle Dynamics** Karl Popp, Werner Schiehlen, 2010-03-15 Ground Vehicle Dynamics is devoted to the mathematical modelling and dynamical analysis of ground vehicle systems composed of the vehicle body the guidance and suspension devices and the corresponding guideway Automobiles on uneven roads and railways on flexible tracks are prominent representatives of ground vehicle systems All these different kinds of systems are treated in a common way by means of analytical dynamics and control theory In addition to a detailed modelling of vehicles as multibody systems the contact theory for rolling wheels and the modelling of guideways by finite element systems as well as stochastic processes are presented As a particular result of this integrated approach the state equations of the global systems are obtained including the complete interactions between the subsystems considered as independent modules The fundamentals of vehicle dynamics for longitudinal lateral and vertical motions and vibrations of automobiles and railways are discussed in detail

*Journal of the Aero/space Sciences*, 1962 *Theory and Practice of Radar Target Identification* August W. Rihaczek, Stephen J. Hershkowitz, 2000 Learn target identification technology and practices designed to solve today's real world radar challenges with this one of a kind book Based on novel theory and fundamentals presented in the authors earlier Artech House book Radar Resolution and Complex Image Analysis this new book describes improved technology and methods for implementing target identification solutions applicable to complicated man made targets

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**Special Taxation for Motor Vehicles** Motor Vehicle Conference Committee,1924     AGARD Index of Publications North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Technical Information Panel,1972     *The Theory and Practice of Military Hygiene* Edward Lyman Munson,1902

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