

THEORY OF GROUND VEHICLES

SECOND EDITION



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

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

Vehicle Dynamics Reza N. Jazar, 2025-01-07 *Vehicle Dynamics* Theory and Application offers comprehensive coverage of fundamental and advanced topics in vehicle dynamics This class tested guide is designed for senior

undergraduate and first year graduate students pursuing mechanical and automotive engineering degrees It covers a wide range of concepts in detail concentrating on practical applications that enable students to understand analyze and optimize vehicle handling and ride dynamics Related theorems formal proofs and real world case examples are included The textbook is divided into four parts covering all the essential aspects of vehicle dynamics Vehicle Motion covers tire dynamics forward vehicle dynamics and driveline dynamics Vehicle Kinematics covers applied kinematics applied mechanisms steering dynamics and suspension mechanisms Vehicle Dynamics covers applied dynamics vehicle planar dynamics and vehicle roll dynamics Vehicle Vibration covers applied vibrations vehicle vibrations and suspension optimization This revised edition adds an engineering perspective to each example highlighting the practical relevance of mathematical models and helping you understand when experimental results may differ from analytical ones New coverage includes vehicle vibrations in transient responses and the control concept in ride optimization Students researchers and practicing engineers alike will appreciate the user friendly presentation of the science and engineering of the mechanical aspects of vehicles emphasizing steering handling ride and related components

Terramechanics and Off-Road Vehicle Engineering J.Y. Wong, 2024-04-23
Terramechanics and Off Road Vehicle Engineering 3rd Edition provides comprehensive and in depth coverage of terrain behavior mechanics of wheel and track terrain interaction and various types of models for cross country performance ranging from empirical through theoretical to physics based engineering models The physics based models for wheeled and tracked vehicle performance developed under the direction of Prof J Y Wong have been gaining increasingly wider acceptance by industry and government agencies around the world The mathematical models established for vehicle terrain systems will enable the engineering practitioner to evaluate on a rational basis a wide range of options and to select an appropriate vehicle configuration for any given mission and environment This long anticipated revision presents the fields significant developments over the past decade both through updates to existing chapters and the inclusion of new material related to modelling applications in addition to a notable state of the art excursus on extra terrestrial rovers Provides a comprehensive introduction to the mechanics of vehicle terrain interaction Demonstrates through examples the application of computer aided engineering methods to the parametric analysis of off road vehicle performance Covers the most recent advancements in the off road vehicle industry encompassing evaluation design development and or procurement of high mobility equipment for the recreational agricultural construction mining military and aerospace sectors

Control Applications of Vehicle Dynamics Jingsheng Yu, Vladimir Vantsevich, 2021-12-24 This book presents essential knowledge of car vehicle dynamics and control theory with NI LabVIEW software product application resulting in a practical yet highly technical guide for designing advanced vehicle dynamics and vehicle system controllers Presenting a clear overview of fundamental vehicle dynamics and vehicle system mathematical models the book covers linear and non linear design of model based controls such as wheel slip control vehicle speed control path following control vehicle stability and rollover control stabilization of vehicle trailer system

Specific applications to autonomous vehicles are described among the methods. It details the practical applications of Kalman Bucy filtering and the observer design for sensor signal estimation alongside lateral vehicle dynamics and vehicle rollover dynamics. The book also discusses high level controllers alongside a clear explanation of basic control principles for regenerative braking in both electric and hybrid vehicles and wheel torque vectoring systems. Concrete LabVIEW simulation examples of how the models and controls are used in representative applications along with software algorithms and LabVIEW block diagrams are illustrated. It will be of interest to engineering students, automotive engineering students and automotive engineers and researchers.

Advanced Autonomous Vehicle Design for Severe Environments V.V.

Vantsevich, M.V. Blundell, 2015-10-20. Classical vehicle dynamics which is the basis for manned ground vehicle design has exhausted its potential for providing novel design concepts to a large degree. At the same time, unmanned ground vehicle (UGV) dynamics is still in its infancy and is currently being developed using general analytical dynamics principles with very little input from actual vehicle dynamics theory. This technical book presents outcomes from the NATO Advanced Study Institute (ASI) Advanced Autonomous Vehicle Design for Severe Environments held in Coventry, UK, in July 2014. The ASI provided a platform for world class professionals to meet and discuss leading edge research, engineering accomplishments and future trends in manned and unmanned ground vehicle dynamics, terrain mobility and energy efficiency. The outcomes of this collective effort serve as an analytical foundation for autonomous vehicle design. Topics covered include historical aspects, pivotal accomplishments and the analysis of future trends in on and off road manned and unmanned vehicle dynamics, terramechanics, soil dynamic characteristics, uncertainties and stochastic characteristics of vehicle environment interaction for agile vehicle dynamics modeling, new methods and techniques in on line control and learning for vehicle autonomy, fundamentals of agility and severe environments, mechatronics and cyber physics issues of agile vehicle dynamics, to design for control, energy harvesting and cyber security, and case studies of agile and inverse vehicle dynamics and vehicle systems design including optimisation of suspension and driveline systems. The book targets graduate students who desire to advance further in leading edge vehicle dynamics topics in manned and unmanned ground vehicles, PhD students continuing their research work and building advanced curricula in academia and industry, and researchers in government agencies and private companies.

Vehicle/Tire/Road Dynamics

Tan Li, 2022-11-24. Vehicle Tire Road Dynamics: Handling, Ride and NVH presents the connection between NVH and conventional vehicle dynamics where both tire and road play a key role. In this book, there is a chapter for handling dynamics that provides an introduction to ride dynamics and a chapter for ride dynamics that provides an introduction to NVH, presenting better coherence and synergy between these major areas of vehicle tire dynamics. Accompanying the fundamental theories, case studies are given to facilitate comprehension. In addition to the experimental implementations, the state of the art approaches to simulating vehicle tire dynamics are presented from the viewpoint of both industry and academia. This new book bridges the gap for experts in tire or pavement NVH, also tire

pavement interaction noise and those who are experts in vehicle dynamics Conventional vehicle dynamics e g handling braking cornering is focused on low frequency performance while NVH noise vibration harshness is focused on high frequency performance There is also another area called ride comfort stability which focuses on mid frequency Presents a closed loop system for vehicle dynamics covering handling ride and NVH Provides insights into how intelligent tires will enhance autonomous vehicle control and optimize multiple performances especially for electric vehicles Demonstrates how pavement characteristics could greatly influence vehicle handling ride NVH and improve balance these performances

Principles of Tribology Shizhu Wen, Ping Huang, 2017-05-30 Updated to include the timely and important topics of MEMS and rolling friction Principles of Tribology is a compilation of current developments from tribology research coupled with tribology fundamentals and applications Essential topics include lubrication theory lubrication design friction mechanism wear mechanism friction control and their applications Besides classical tribology content the book also covers intersecting research areas of tribology as well as the regularities and characteristics of the tribological phenomena in practice Furthermore it presents the basic theory numerical analysis methods and experimental measuring techniques of tribology as well as their application in engineering Newly expanded and updated to include new tribological material on MEMS and green tribology its key concepts and applications Systematically brings the reader through fundamental theories basic mechanisms through to the latest research Emphasizes practical tribological phenomena supported by numerical analysis and experimental measurement techniques Discusses nano tribology thin film lubrication and its applications topics which are growing in importance A comprehensive look at the fundamentals and latest research this second edition of Principles of Tribology is an essential textbook for graduate and senior undergraduate students specializing in tribology and related mechanical engineering fields

Off-road Vehicle Dynamics Hamid Taghavifar, Aref Mardani, 2016-07-27 This book deals with the analysis of off road vehicle dynamics from kinetics and kinematics perspectives and the performance of vehicle traversing over rough and irregular terrain The authors consider the wheel performance soil tire interactions and their interface tractive performance of the vehicle ride comfort stability over maneuvering transient and steady state conditions of the vehicle traversing modeling the aforementioned aspects and optimization from energetic and vehicle mobility perspectives This book brings novel figures for the transient dynamics and original wheel terrain dynamics at on the go condition

Robotics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-10-31 This book explores some of the most recent developments in robotic motion artificial intelligence and human machine interaction providing insight into a wide variety of applications and functional areas Provided by publisher

American Journal of Physics ,2005 *Handbook of Materials Failure Analysis With Case Studies from the Construction Industries* Abdel Salam Hamdy Makhlouf, Mahmood Aliofkhazraei, 2018-04-27 Handbook of Materials Failure Analysis With Case Studies from the Construction Industry provides a thorough understanding of the reasons materials fail in

certain situations covering important scenarios including material defects mechanical failure due to various causes and improper material selection and or corrosive environment The book begins with a general overview of materials failure analysis and its importance and then logically proceeds from a discussion of the failure analysis process types of failure analysis and specific tools and techniques to chapters on analysis of materials failure from various causes Failure can occur for several reasons including materials defects related failure materials design related failure or corrosion related failures The suitability of the materials to work in a definite environment is an important issue The results of these failures can be catastrophic in the worst case scenarios causing loss of life This important reference covers the most common types of materials failure and provides possible solutions Provides the most up to date and balanced coverage of failure analysis combining foundational knowledge and current research on the latest developments and innovations in the field Offers an ideal accompaniment for those interested in materials forensic investigation failure of materials static failure analysis dynamic failure analysis and fatigue life prediction Presents compelling new case studies from key industries to demonstrate concepts and to assist users in avoiding costly errors that could result in catastrophic events **Cone Penetration Testing**

2022 Guido Gottardi, Laura Tonni, 2022-06-24 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the broad and dynamic field of cone penetration testing

Engineering Dynamics M Rashad Islam, A K M Monayem H Mazumder, Mahbub Ahmed, 2022-08-09 This textbook is intended for the first course of engineering dynamics for undergraduate students Engineering dynamics is a rigorous topic that typically involves the intensive use of vector mathematics and calculus This book however uses plain language with less vector mathematics and calculus to introduce these topics of mathematics to students with a high school physics background Numerous practical examples are provided with their step by step worked out solutions as well as case studies to reflect the interests of new engineering and applied engineering students The topics covered in the Fundamentals of Engineering FE examination are presented throughout the text It also includes roadway dynamics to incorporate engineering dynamics and transportation engineering for civil engineering Features Discusses

theory using easy to understand language with less vector mathematics and calculus Includes practical case studies and numerous realistic step by step solved examples Includes exercise problems for students practice Provides numerous sample examples related to the Fundamentals of Engineering FE exam Includes a solutions manual and PowerPoint slides for adopting instructors Engineering Dynamics Fundamentals and Applications serves as a useful resource for students across several engineering degree programs such as civil mechanical aerospace automotive chemical and electrical engineering It is also appropriate for engineering technology and applied science students as well

Terotechnology XII Norbert Radek, 2022-09-05 Terotechnology is concerned with the installation commissioning maintenance replacement and removal of plant machinery and equipment It also includes operation and design aspects and related subjects and practices

The Engineering Handbook Richard C Dorf, 2018-10-03 First published in 1995 The Engineering Handbook quickly became the definitive engineering reference Although it remains a bestseller the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering computer engineering and nanotechnology mean that the time has come to bring this standard setting reference up to date New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your personal office or institutional library

Pavement-vehicle Interaction and Traffic Monitoring, 1995

Road Vehicle Dynamics Rao V Dukkipati, Jian Pang, Mohamad S Qatu, Gang Sheng, Zuo Shuguang, 2008-06-19 This book provides a detailed and well rounded overview of the dynamics of road vehicle systems Readers will come to understand how physical laws human factor considerations and design choices come together to affect a vehicle's ride handling braking and acceleration Following an introduction and general review of dynamics topics include analysis of dynamic systems tire dynamics ride dynamics vehicle rollover analysis handling dynamics braking acceleration and total vehicle dynamics

Ultra Low Power Bioelectronics Rahul Sarpeshkar, 2010-02-22 This book provides for the first time a broad and deep treatment of the fields of both ultra low power electronics and bioelectronics It discusses fundamental principles and circuits for ultra low power electronic design and their applications in biomedical systems It also discusses how ultra energy efficient cellular and neural systems in biology can inspire revolutionary low power architectures in mixed signal and RF electronics The book presents a unique unifying view of ultra low power analog and digital electronics and emphasizes the use of the ultra energy efficient subthreshold regime of transistor operation in both Chapters on batteries energy harvesting and the future of energy provide an understanding of fundamental relationships between energy use and energy generation at small

scales and at large scales A wealth of insights and examples from brain implants cochlear implants bio molecular sensing cardiac devices and bio inspired systems make the book useful and engaging for students and practicing engineers

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-12-12 Ongoing advancements in modern technology have led to significant developments in artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence

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