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Handbook Of Vehicle Road Interaction

This handbook dicussess tyre-road contact forces generated by heavy vehicles covering their influence on road surface and bridge response and damage, as well as ways of regulating and improving vehicles so as to minimize road damage.;The main incentive for understanding vehicle-road interaction is the possibility of reducing the road damage caused by heavy vehicles and the very high associated costs.

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HANDBOOK OF VEHICLE-ROAD INTERACTION

"This handbook discusses tyre-road contact forces generated by heavy vehicles: their influence on road surface and bridge response and damage; as well as ways of regulating and improving vehicles so as to minimise road damage." "This handbook is essential reading for mechanical and civil engineers, researchers and policy makers in the heavy vehicle and highway engineering industries."--Jacket.

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This handbook discusses tyre-road contact forces generated by heavy vehicles, their influence on road surface and bridge response and damage, as well as ways of assessing and improving vehicles so as to minimise road damage. The book is divided into eight sections: 1. provides general background material about road wear, expenditure on roads and some historical perspectives. 2. deals with ...

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Handbook of vehicle-road interaction vehicle dynamics, suspension design, and road damage This edition published in 1999 by Swets & Zeitlinger Publishers in Exton, Pa.

This handbook dicussess tyre-road contact forces generated by heavy vehicles covering their influence on road surface and bridge response and damage, as well as ways of regulating and improving vehicles so as to minimize road damage.;The main incentive for understanding vehicle-road interaction is the possibility of reducing the road damage caused by heavy vehicles and the very high associated costs. This may be achieved by highway authorities, through improved design and construction of roads; by government agencies, through regulations intended to encourage the use of more "road-friendly" vehicles; or by vehicle engineers, through design of improved vehicle configurations and suspensions, which minimize road damage.;The book provides a unified mechanistic approach to the entire subject, covering vehicle dynamics; dynamic tyre forces; weigh-in-motion; pavement and bridge response; damage mechanisms of paving materials; vehicle-guideway interaction; suspension design to minimize road damage; and assessing road damaging potential of vehicles for regulatory purposes. It includes 25 literature reviews, covering topics from asphalt deformation to weigh-in-motion, and citing over 500 references. In addition, it discusses both the fundamental mechanics of the mechanical and civil engineering systems, as well as practical and implementation issues.

Featuring contributions from leading experts, the Road and Off-Road Vehicle System Dynamics Handbook provides comprehensive, authoritative coverage of all the major issues involved in road vehicle dynamic behavior. While the focus is on automobiles, this book also highlights motorcycles, heavy commercial vehicles, and off-road vehicles.The authors

Featuring contributions from leading experts, the Road and Off-Road Vehicle System Dynamics Handbook provides comprehensive, authoritative coverage of all the major issues involved in road vehicle dynamic behavior. While the focus is on automobiles, this book also highlights motorcycles, heavy commercial vehicles, and off-road vehicles. The authors of the individual chapters, both from automotive industry and universities, address basic issues, but also include references to significant papers for further reading. Thus the handbook is devoted both to the beginner, wishing to acquire basic knowledge on a specific topic, and to the experienced engineer or scientist, wishing to have up-to-date information on a particular subject. It can also be used as a textbook for master courses at universities. The handbook begins with a short history of road and off-road vehicle dynamics followed by detailed, state-of-the-art chapters on modeling, analysis and optimization in vehicle system dynamics, vehicle concepts and aerodynamics, pneumatic tires and contact wheel-road/off-road, modeling vehicle subsystems, vehicle dynamics and active safety, man-vehicle interaction, intelligent vehicle systems, and road accident reconstruction and passive safety. Provides extensive coverage of modeling, simulation, and analysis techniques Surveys all vehicle subsystems from a vehicle dynamics point of view Focuses on pneumatic tires and contact wheel-road/off-road Discusses intelligent vehicle systems technologies and active safety Considers safety factors and accident reconstruction procedures Includes chapters written by leading experts from all over the world This text provides an applicable source of information for all people interested in a deeper understanding of road vehicle dynamics and related problems.

Vehicle dynamics and road dynamics are usually considered to be two largely independent subjects. In vehicle dynamics, road surface roughness is generally regarded as random excitation of the vehicle, while in road dynamics, the vehicle is generally regarded as a moving load acting on the pavement. This book suggests a new research concept to integrate the vehicle and the road system with the help of a tire model, and establishes a cross-subject research framework dubbed vehicle-pavement coupled system dynamics. In this context, the dynamics of the vehicle, road and the vehicle-road coupled system are investigated by means of theoretical analysis, numerical simulations and field tests. This book will be a valuable resource for university professors, graduate students and engineers majoring in automotive design, mechanical engineering, highway engineering and other related areas. Shaopu Yang is a professor and deputy president of Shijiazhuang Tiedao University, China; Liqun Chen is a professor at Shanghai University, Shanghai, China; Shaohua Li is a professor at Shijiazhuang Tiedao University, China.

A concise reference that provides an overview of the design of high speed off-road vehicles High Speed Off-Road Vehicles is an excellent, in-depth review of vehicle performance in off-road conditions with a focus on key elements of the running gear systems of vehicles. In particular, elements such as suspension systems, wheels, tyres, and tracks are addressed in-depth. It is a well-written text that provides a pragmatic discussion of off-road vehicles from both a historical and analytical perspective. Some of the unique topics addressed in this book include link and flexible tracks, ride performance of tracked vehicles, and active and semi-active suspension systems for both armoured and unarmoured vehicles. The book provides spreadsheet-based analytic approaches to model these topic areas giving insight into steering, handling, and overall performance of both tracked and wheeled systems. The author further extends these analyses to soft soil scenarios and thoroughly addresses rollover situations. The text also provides some insight into more advanced articulated systems. High Speed Off-Road Vehicles: Suspensions, Tracks, Wheels and Dynamics provides valuable coverage of: Tracked and wheeled vehicles Suspension component design and characteristics, vehicle ride performance, link track component design and characteristics, flexible track, and testing of active suspension test vehicles General vehicle configurations for combat and logistic vehicles, suspension performance modelling and measurement, steering performance, and the effects of limited slip differentials on the soft soil traction and steering behavior of vehicles Written from a very practical perspective, and based on the author's extensive experience, High Speed Off-Road Vehicles provides an excellent introduction to off-road vehicles and will be a helpful reference text for those practicing design and analysis of such systems.

Worldwide there is a growing interest in efficient planning and the design, construction and maintenance of transportation facilities and infrastructure assets. The 3rd International Conference on Transportation Infrastructure ICTI 2014 (Pisa, April 22-25, 2014) contains contributions on sustainable development and preservation of transportation infrastructure assets, with a focus on eco-efficient and cost-effective measures. Sustainability, Eco-efficiency and Conservation in Transportation Infrastructure Asset Management includes a selection of peer reviewed papers on a wide variety of topics: • Advanced modeling tools (LCA, LCC, BCA, performance prediction,design tools and systems) • Data management (monitoring and evaluation) • Emerging technologies and equipments • Innovative strategies and practices • Environmental sustainability issues • Eco-friendly design and materials • Re-use or recycling of resources • Pavements, tracks, and structures • Case studies Sustainability, Eco-efficiency and Conservation in Transportation Infrastructure Asset Management will be particularly of interest to academics, researchers, and practitioners involved in sustainable development and maintenance of transportation infrastructure assets.

This book is an outcome of the sixth conference on bearing capacity of roads and airfield held in Lisbon, Portugal. It focuses on railway tracks and covers following topics: bearing capacity policies, concepts, costs and condition surveys; analysis and modelling; design and environmental effects.

"This report presents models for estimating the effects of pavement condition on vehicle operating costs ... The material contained in the report should be of immediate interest to state pavement, construction, and maintenance engineers; vehicle fleet managers; and those involved in pavement-investment decision processes and financial aspects of highway transportation."--foreword.

The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession. Using the Engineerin