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mobile working machines are defined by three characteristics these machines have a certain task of doing a working process they are mobile and they have a significant energy share in their working functions the machines should be as productive efficient and of high quality as possible all these machines in the field of agriculture forestry construction logistics municipal sector and in

other special applications work in different applications but many technologies placed in the machines are the same similar or comparable therefore different branches can learn from each other mobile working machines provides a wide and deep view into the technologies used in these machines appropriate for new engineers as well as those who wish to increase their knowledge in this field this book brings together all the latest research and development into one place

design of automotive composites reports that successful designs of automotive composites occurred recently in this arena the chapters consist of eleven technical papers selected from the automotive composites and other relevant sessions that the editors have been organizing for the sae international world congress over the past five years the book is divided into four sections o body structures o powertrain components o suspension components o electrical and alternative vehicle components the composite design examples presented in design of automotive composites come from the major oems and top tier suppliers and are most relevant to the automotive materials challenges currently faced by the industry many of the innovative ideas have already been implemented on existing or new model vehicles although a great deal of innovation is still in the works with the advantage of supporting lightweighting and faster time to market there is little doubt that composite materials can provide many tangible benefits and will become over time the material of choice for automakers

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

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an introduction to modern vehicle design provides a thorough introduction to the many aspects of passenger car design in one volume starting with basic principles the author builds up analysis procedures for all major aspects of vehicle and component design subjects of current interest to the motor industry such as failure prevention designing with modern materials ergonomics and control systems are covered in detail and the author concludes with a discussion on the future trends in automobile design with contributions from both academics lecturing in motor vehicle engineering and those working in the industry an introduction to modern vehicle design provides students with an excellent overview and background in the design of vehicles before they move on to specialised areas filling the niche between the more descriptive low level books and books which focus on specific areas of the design process this unique volume is essential for all students of automotive engineering only book to cover the broad range of topics for automobile design and analysis procedures each topic written by an expert with many years experience of the automotive industry

this work presents its readers with the most recent advances in the fields of machining and advanced manufacturing technology it will be of especial valuable to production and research engineers research students and academics

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