

Road and Off-Road Vehicle System Dynamics Handbook

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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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Editorial Review

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Politecnico di Milano, Italy Technische Universitat, Wien, Germany

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Judith Rayl:

Reading a guide tends to be new life style within this era globalization. With reading through you can get a lot of information that may give you benefit in your life. Using book everyone in this world can easily share their idea. Textbooks can also inspire a lot of people. A great deal of author can inspire their own reader with their story or perhaps their experience. Not only the storyplot that share in the ebooks. But also they write about the knowledge about something that you need case in point. How to get the good score toefl, or how to teach children, there are many kinds of book which exist now. The authors in this world always try to improve their talent in writing, they also doing some research before they write to their book. One of them is this Road and Off-Road Vehicle System Dynamics Handbook.

Ivan Caputo:

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Karen Wilson:

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