

Vehicle Dynamics: Theory and Application

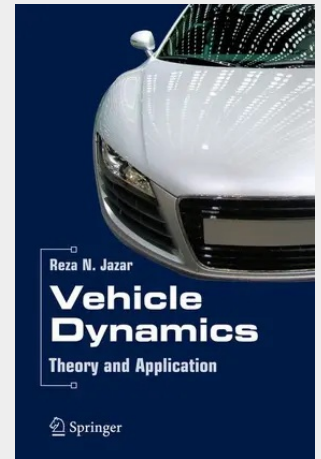
Theory and Application

Vehicle Dynamics: Theory and Application is written as a textbook for senior undergraduate and first year graduate students in mechanical engineering. It provides both fundamental and advanced topics on handling, ride, components, and behavior of vehicles. Coverage includes front, rear, and four wheel steering systems, as well as the advantages and disadvantages of different steering schemes. Individual sections devoted to handling, ride, and components will be beneficial to students as future automotive designers. This book includes a detailed review of practical design considerations and a number of practical examples and exercises.

Vehicle Dynamics: Theory and Application is appropriate for senior undergraduate and first year graduate students in mechanical engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of a wealth of topics most notably steering, handling, ride, and related components. Vehicle Dynamics: Theory and Application includes:

- Richly illustrated chapters and over 500 diagrams to help readers visualize concepts.
- More than 500 detailed examples with fully-worked solutions which expose readers to a balanced and broad understanding of vehicle dynamics.
- A wealth of detailed problem sets and challenge problems for each chapter for the more advanced reader.
- A complete solutions manual which is available for instructors.

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86,62 €
80,95 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387742434

Medium: Buch

ISBN: 978-0-387-74243-4

Verlag: Springer Netherlands

Erscheinungstermin: 04.11.2009

Sprache(n): Englisch

Auflage: 1. Auflage 2008. Corr. 3rd printing 2009

Produktform: Gebunden

Gewicht: 1667 g

Seiten: 1015

Format (B x H): 155 x 235 mm

