



# Vehicle Handling Dynamics: Theory and Application

By Masato Abe

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## Vehicle Handling Dynamics: Theory and Application By Masato Abe

This is the first book to combine classical vehicle dynamics with electronic control. The equation-based presentation of the theory behind vehicle dynamics enables readers to develop a thorough understanding of the key attribute to both a vehicle's driveability and its active safety. Supported by MATLAB tools, the key areas that affect vehicle dynamics are explored including tire mechanics, the steering system, vehicle roll, traction and braking, 4WS and vehicle dynamics, vehicle dynamics by vehicle and human control, and controllability.

As a professional reference volume, this book is an essential addition to the resources available to anyone working in vehicle design and development. Written by a leading authority in the field (who himself has considerable practical experience), the book has a unique blend of theory and practice that will be of immense value in this applications based field.

- \* Get a thorough understand of why vehicles respond they way they do with a complete treatment of vehicle dynamics from theory to application
- \* Full of case studies and worked examples using MATLAB/Simulink
- \* Covers all variables of vehicle dynamics including tire and vehicle motion, control aspects, human control and external disturbances

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## **Editorial Review**

### **About the Author**

Masato Abe is Professor Emeritus at Kanagawa Institute of Technology. He has authored over 100 papers and served as co-editor of the journal Vehicle Systems and Dynamics. Abe is a leading researcher in vehicle dynamics and control, driver-vehicle-system analysis and application, electric vehicle with four-wheel independent driving and steering systems, and networked multiple driving simulators for accident analysis and vehicle traffic safety.

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