



Dirk Adamski

# Simulation in Chassis Technology

A Practice-oriented Introduction to the Creation of Component and Full Vehicle Models Using the Method of Multi-Body Systems

- Safe vehicle simulation with suitable vehicle models
- Modelling types for suspension kinematics, springs and dampers explained in detail
- Data acquisition and validation of vehicle models

Anyone who wants to simulate the behavior of vehicles must think about how they want to model the vehicle's chassis. Depending on the question (vehicle dynamics, ride comfort, load data prediction ...) there are a variety of possibilities. This book should help to find and implement the right models and processes. In addition to a short introduction to simulation technology, the most important types of modelling for the assemblies of the chassis using the method of multi-body systems are presented. However, successful simulation does not only mean the assembly of suitable models, but always represents a well thought-out process that goes from data acquisition to the validation of the models. This will be discussed using suitable examples for concrete questions.

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