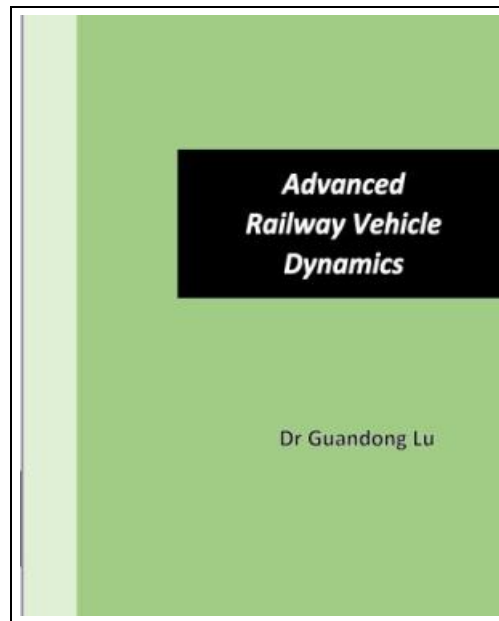


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Reviews

It is one of the most popular publications. It is actually written in easy words instead of confusing. You will like how the author created this book.

(Art Gislason)

ADVANCED RAILWAY VEHICLE DYNAMICS (PAPERBACK)



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This book focuses on the establishment of system dynamics equations and the solutions of a variety of typical problems, each chapter is accompanied by informative examples, detailing the steps and methods of solving the dynamics problems. Chapter 1 introduces the system modelling method. A matrix transformation method is introduced. It is a standardized method and suitable for computer modelling. The creep and gravitational forces induced by the relative movement between the rail and wheel are unique to the railway vehicles, clear interpretations are given graphically. A set of complete expressions of creep and creep force are derived. Three theories of creepage and creep force are introduced. In Chapter 2, four representative static cases (Weight transfer analysis, Adjust wheel loads by spring shimming, Wheel off-loading on twisted track, Linear analysis of bogie steady state curving behaviour) are discussed in detail, their system equations are formed exactly the same way, but the formations of their external force vector are completely different. Eigenvalue and vehicle stability analysis are discussed in Chapter 3. They are illustrated by the examples step by step from simple to complex. Chapter 4 introduces frequency response analysis. It starts with one degree of freedom system, derives a general form of frequency response equation, and then extends to multi-degrees of freedom system. Different forms of interference and time delay expression are introduced. Chapter 5 introduces the system transient response analysis. It gives a detailed introduction to the principles, methods, and calculation steps of the numerical analysis method. Wheel-rail vertical impact analysis deals with the Hertz nonlinear contact theory. Responses of wheelsets and bogies disturbed by track lateral irregularities are discussed in great detail by the application of the square root creep...



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