



Rail Vehicle Dynamics

By Klaus Knothe, Sebastian Stichel

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This book on the dynamics of rail vehicles is developed from the manuscripts for a class with the same name at TU Berlin. It is directed mainly to master students with pre-knowledge in mathematics and mechanics and engineers that want to learn more. The important phenomena of the running behaviour of rail vehicles are derived and explained. Also recent research results and experience from the operation of rail vehicles are included. One focus is the description of the complex wheel-rail contact phenomena that are essential to understand the concept of running stability and curving. A reader should in the end be able to understand the background of simulation tools that are used by the railway industry and universities today.

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Editorial Review

From the Back Cover

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About the Author

Klaus Knothe, Master in Mathematics and Civil Engineering TU Darmstadt 1963. Promotion (PhD) Mechanical Engineering, TU Berlin 1967; Habilitation Mechanical Engineering, TU Berlin 1969; Professor at TU Berlin since 1970; retired 2002; several Research Projects together with Deutsche Bahn: Lectures (among others) in Finite Element Method, Structural Dynamics and Rail Vehicle Dynamics; publication of more than 260 papers, among them 4 books. Member of the Editorial Board of *Vehicle System Dynamics*.

Sebastian Stichel has a Master in Vehicle Engineering from the Technical University Berlin 1992 and a PhD from the same University 1996. He joined Bombardier in Västerås in 2000. From 2000 to 2010 he was Manager for Vehicle Dynamics at Bombardier. Since 2010 he is Professor in Rail Vehicle Dynamics at KTH Stockholm.

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