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Design and simulation of a controller for an active suspension system of a rail car I. A Daniyan1*, K. Mpofo1 and D. F. Osadare2 Abstract: The quest to increase the performance of rail car in terms of stability, safety and ride comfort has triggered research into the design, modelling and dynamic simulation of the suspension system of a rail car.

Keep Up with Advancements in the Field of Rail Vehicle Design A thorough understanding of the issues that affect dynamic performance, as well as more inventive methods for controlling rail vehicle dynamics, is needed to meet the demands for safer rail vehicles with higher speed and loads. Design and Simulation of Rail Vehicles examines the field of rail vehicle design, maintenance, and modification, as well as performance issues related to these types of vehicles. This text analyzes rail vehicle design issues and dynamic responses, describes the design and features of rail vehicles, and introduces methods that address the operational conditions of this complex system. Progresses from Basic Concepts and Terminology to Detailed Explanations and Techniques Focused on both non-powered and powered rail vehicles—freight and passenger rolling stock, locomotives, and self-powered vehicles used for public transport—this book introduces the problems involved in designing and modeling all types of rail vehicles. It explores the applications of vehicle dynamics, train operations, and track infrastructure maintenance. It introduces the fundamentals of locomotive design, multibody dynamics, and longitudinal train dynamics, and discusses co-simulation techniques. It also highlights recent advances in rail vehicle design, and contains applicable standards and acceptance tests from around the world. • Includes multidisciplinary simulation approaches • Contains an understanding of rail vehicle design and simulation techniques • Establishes the connection between theory and many simulation examples • Presents simple to advanced rail vehicle design and simulation methodologies Design and Simulation of Rail Vehicles serves as an introductory text for graduate or senior undergraduate students, and as a reference for practicing engineers and researchers investigating performance issues related to these types of vehicles.

With the increasing demands for safer freight trains operating with higher speed and higher loads, it is necessary to implement methods for controlling longer, heavier trains. This requires a full understanding of the factors that affect their dynamic performance. Simulation techniques allow proposed innovations to be optimised before introducing them into the operational railway environment. Coverage is given to the various types of locomotives used with heavy haul freight trains, along with the various possible configurations of those trains. This book serves as an introductory text for college students, and as a reference for engineers practicing in heavy haul rail network design.

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"Simulation has been used on a continuous basis at Swan Wooster as a valuable tool in planning and design of projects since the late 1960s. The simulation concept has been applied to railway costing in order to assist in rail tariff negotiations between shippers and carriers of various types; to analyze mine to overseas consumer total transportation systems; to analyze in detail the materials handling systems of a number of complex terminals, and to help design railway terminal yards. The simulation approach is also being extended into operational simulations, linked to automatic control of operating terminals, to assist management make day-to-day operating decisions. The processes of design and simulation have been interlinked. A cycle procedure is now used to converge upon the final recommended design. A particular design is recommended, then tested by simulation, then evaluated for performance, and then revised as necessary. The cycle of testing, evaluation and revision is continued until a satisfactory design is achieved. A number of major clients now consider simulation and its possibilities for unified design planning to be an essential first step before proceeding into more detailed design. These clients have recognized that simulation makes it possible to examine the interdependencies of a transportation system simultaneously to ensure that all parts are in harmony with the whole. They feel that this approach is superior to the conventional design process in which various components are designed separately, with little concern for their impact on other parts of the system"--Page [2].

Understanding the dynamics of railway vehicles, and indeed of the entire vehicle-track system, is critical to ensuring safe and economical operation of modern railways. As the challenges of higher speed and higher loads with very high levels of safety require ever more innovative engineering solutions, better understanding of the technical issues a

This unique and up-to-date work surveys the use of mechatronics in rail vehicles, notably traction, braking, communications, data sharing, and control. The results include improved safety, comfort, and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory, the book goes on to cover topics including modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout, and numerical experiments and developed models for railway application are presented and explained. Case studies are used, alongside practical examples, to ensure that the reader can apply mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. Rail Vehicle Mechatronics provides current and in-depth content for design engineers, operations managers, systems engineers and technical consultants world-wide, working with freight, passenger, and urban transit railway systems.

The rail network plays an essential role in transport infrastructure worldwide. A ballasted track is commonly used for several reasons, including economic considerations, load bearing capacity, rapid drainage and ease of maintenance. Given the ever-increasing demand for trains to carry heavier axle loads at greater speeds, traditional design and construction must undergo inevitable changes for sustainable performance. Ballast is an unbounded granular assembly that displaces when subjected to repeated train loading affecting track stability. During heavy haul operations, ballast progressively deteriorates and the infiltration of fluidized fines (mud pumping) from the underlying substructure and subgrade decreases its shear strength and also impedes drainage, while increasing track deformation and associated maintenance. Features: serves as a useful guide to assist the practitioner in new track design as well as remediating existing tracks. research discussed in this book has made considerable impact on the railway industry, resulting from collaborative research between academia and industry, incorporating sophisticated laboratory tests, computational modelling and field studies. This book presents a comprehensive procedure for the design of ballasted tracks based on a rational approach that combines extensive laboratory testing, computational modelling and field measurements conducted over the past two decades. Ballast Railroad Design: SMART-UOW Approach will not only become an imperative design aid for rail practitioners, but will also be a valuable resource for postgraduate students and researchers alike in railway engineering.

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