

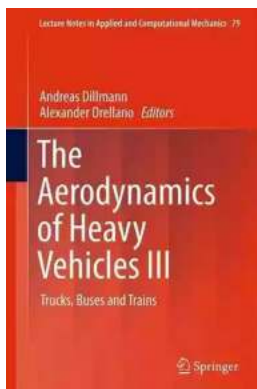
Discover the Fascinating World of Trucks, Buses, and Trains with Lecture Notes in Applied and Computational Mechanics 79!

Are you passionate about the world of transportation? Do you find trucks, buses, and trains fascinating? Look no further, as we bring you an in-depth exploration of these mechanical marvels through the esteemed publication - Lecture Notes in Applied and Computational Mechanics 79.

to Lecture Notes in Applied and Computational Mechanics 79

Lecture Notes in Applied and Computational Mechanics (LNACM) is a renowned series that covers various aspects of applied and computational mechanics. The 79th volume in this series is dedicated to the enthralling domain of trucks, buses, and trains.

The contributors to this volume bring their expertise and knowledge to provide a comprehensive understanding of the design, dynamics, and advancements in technology related to these heavy vehicles. Whether you are an academic enthusiast, a researcher, or simply someone intrigued by the mechanics of transportation, this publication is a treasure trove of valuable information.



The Aerodynamics of Heavy Vehicles III: Trucks, Buses and Trains (Lecture Notes in Applied and Computational Mechanics Book 79)

by D C Robinson(1st ed. 2016 Edition, Kindle Edition)

★★★★☆ 4.8 out of 5

Language : English

File size : 28347 KB

Text-to-Speech : Enabled

Screen Reader : Supported



An Exploration of Trucks

The first section of LNACM 79 delves into the realm of trucks. From the evolution of truck designs to the intricacies of their aerodynamics, you will gain insights into the engineering and physics behind these robust vehicles. The authors discuss topics such as load-carrying capacity, suspension systems, braking systems, and the impact of various external factors on truck performance.

The detailed lecture notes provide a fascinating glimpse into the world of heavy-duty haulers, guiding readers through the principles that govern their operation and efficiency. Novices and experts alike will appreciate the rich content and lucid explanations offered by the authors.

Unveiling the Wonders of Buses

Buses play a crucial role in public transportation, offering a convenient and efficient mode of commuting for millions of people worldwide. LNACM 79 presents a captivating section dedicated to the mechanics and dynamics of buses.

The contributors present a comprehensive overview of bus design, analyzing factors such as passenger safety, fuel efficiency, emission control, and noise reduction. You will discover the fascinating advancements in hybrid and electric bus technologies and their impact on environmental sustainability.

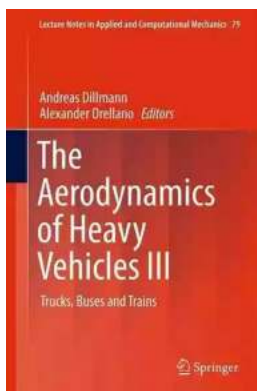
Revolutionizing the World of Trains

The last section of LNACM 79 focuses on trains, one of the most iconic forms of transportation. Whether it's high-speed trains, locomotives, or freight trains, this volume covers a vast range of topics related to train mechanics and dynamics.

The contributors shed light on the structural integrity of trains, their propulsion systems, and the challenges faced in maintaining their optimal performance. From discussing the influence of track irregularities to exploring the impact of train speed on passenger comfort, this section provides readers with a comprehensive understanding of the fascinating world of trains.

Lecture Notes in Applied and Computational Mechanics 79 delivers a wealth of knowledge on the captivating domain of trucks, buses, and trains. Whether you are an aspiring engineer or an enthusiast seeking to delve deeper into the mechanics of transportation, this publication is an essential resource.

With its carefully curated content, detailed lecture notes, and expert insights, this volume offers a fascinating glimpse into the world of heavy vehicles. So, grab a copy of Lecture Notes in Applied and Computational Mechanics 79 and embark on a thrilling journey through the mesmerizing world of trucks, buses, and trains!



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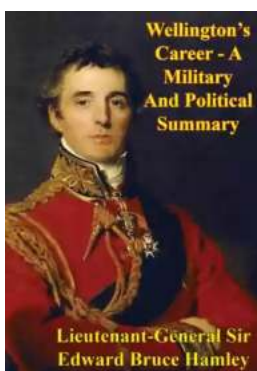
Enhanced typesetting : Enabled

Print length : 437 pages



This volume contains papers presented at the International conference “The Aerodynamics of Heavy Vehicles III: Trucks, Buses and Trains” held in Potsdam, Germany, September 12-17, 2010 by Engineering Conferences International (ECI). Leading scientists and engineers from industry, universities and research laboratories, including truck and high-speed train manufacturers and operators were brought together to discuss computer simulation and experimental techniques to be applied for the design of more efficient trucks, buses and high-speed trains in the future.

This conference was the third in the series after Monterey-Pacific Groove in 2002 and Lake Tahoe in 2007. The presentations address different aspects of train aerodynamics (cross wind effects, underbody flow, tunnel aerodynamics and aeroacoustics, experimental techniques), truck aerodynamics (drag reduction, flow control, experimental and computational techniques) as well as computational fluid dynamics and bluff body, wake and jet flows.



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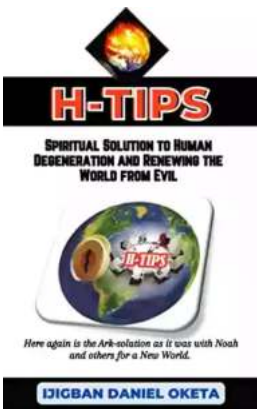
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