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Nota di contenuto	Chapter 1: Introduction to Dynamics of Transportation Ecosystem, Modeling and Control -- Chapter 2: Comparing meta-heuristic algorithms for transit network design -- Chapter 3: Railway Induced Noise And Vibration -- Chapter 4: Reducing Transaction Costs And Increasing Traceability In Indian Food Supply Chain Using Blockchain -- Chapter 5: Transport Decarbonisation in Nigeria: A Dialectic Review -- Chapter 6: Sustainable supply chain management challenges in petroleum transportation -- Chapter 7: Assessment and Mapping of Traffic Noise Levels in Coal Capital of India, Dhanbad, India: Implications for Noise Pollution Management -- Chapter 8: Generalized ANN assisted data-driven aerodynamic optimization technique -- Chapter 9: Hydrogen Powered Rolling Stock: A Review -- Chapter 10: Theoretical and Application Aspects of Determining the Curvature of the Railway Track Axis by the Moving Chord Method -- Chapter 11: Train delay prediction using machine learning technique -- Chapter 12: TechnologicalImprovement in F&V Cold Chain in India -- Chapter 13:

Designing a Framework for Sustainable Supply Chain Management of Coal Transportation -- Chapter 14: Environmental Assessment of the of DFCCIL -- Chapter 15: Modelling and analysis of the hydraulic system parameters under different loading conditions -- Chapter 16: Study of the Bullwhip Effect in a Multistage Supply Chain considering Four Retailers with a Callback Structure -- Chapter 17: Warehousing and Supply Chain Management of Dangerous Goods -- Chapter 18: Pyrolysis of plastic waste as a route to a circular economy: An advanced chemistry approach -- Chapter 19: Deterministic and Probabilistic Forced Response Analysis of A Railway Coach Using FEA -- Chapter 20: Reliability Model of Railroad Traffic Control System Equipped With Peltier Cell.

Sommario/riassunto

Transportation is the lifeblood of modern society, connecting people, goods, and information across the world. However, as our cities grow and the demand for transportation increases, it becomes imperative to understand and manage the intricate dynamics of the transportation ecosystem. This book provides an in-depth exploration of the complex dynamics of transportation systems, with a focus on modeling and control strategies that can enhance efficiency, sustainability, and resilience. It is an indispensable resource for transportation engineers, researchers, students, and professionals seeking a comprehensive understanding of the complex dynamics at play in transportation systems. By delving into advanced modeling techniques, control strategies, and sustainability considerations, this book equips readers with the knowledge needed to navigate and optimize the evolving transportation landscape. This book offers a comprehensive examination of the interconnected elements within the transportation ecosystem, including vehicles, infrastructure, traffic flow, and emerging technologies. It explores advanced modeling and simulation techniques for understanding and predicting transportation system behavior, discussing control strategies that can be applied to optimize transportation systems, enhancing safety, and mitigating congestion, addressing the challenges of sustainability and resilience in transportation, including the integration of eco-friendly technologies and disaster response.
