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Nota di contenuto	Intro -- Contents -- Improving the Quality of Training Programs at Transport Universities -- 1 Introduction -- 2 Research Methods -- 3 Research Results -- 4 Discussion of Results and Conclusions -- References -- Formation of an Ontology-Based Model of Interaction Between the Railway Industry and Engineering Education -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- System Analysis of the Significance of Large-Scale Transport Projects -- 1 Introduction -- 2 Research Methods -- 3 Results -- 4 Conclusions -- 5 Appreciation -- References -- Optimization Interregional Input-Output Model of Railway Transport: A Tool for Appraisal of Large-Scale Infrastructure Investments -- 1 Introduction -- 2 Research Methods -- 3 Research Results -- 4 Results Discussion -- References -- Modern Problems of Assessing the Work Efficiency of Train Dispatchers -- 1 Introduction -- 2 Research Methods -- 3 Research Results -- References -- Analytical Review of Theoretical Approaches to the Formation and Accounting of the Innovative Potential of Transport Corporation --

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1 Introduction.

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## Sommario/riassunto

This book presents innovations in the field of high-speed rail technology, hyperloop transportation technologies and Maglev system, information and communication technology (ICT) for intelligent transportation systems (ITS), multimodal transportation, sustainable freight transportation, and others. The papers presented in the book are proceedings of the annual scientific forum "TransSiberia", which is the foremost Russian transport event that focuses on innovations in rail transport. The book also presents research in the field of railway engineering, health monitoring, inspection, NDT&E, and signal processing. Developments in the field of decarbonization of railway transport and new types of fuel as an alternative to electrification are proposed. The issues of sustainable operation and maintenance of railway systems and sustainable freight transportation, such as digitalization and AI technologies for sustainable asset management, operation, and maintenance of railway systems, have received a lot of research attention. The book serves as a medium for railroad academia and industry to exchange new ideas and share the latest achievements, as well as to continue supporting the productivity of the transport industry in a sustainable manner.

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