

1. Record Nr.	UNINA9910841870003321
Titolo	Noise and Vibration Mitigation for Rail Transportation Systems : Proceedings of the 14th International Workshop on Railway Noise, 07–09 December 2022, Shanghai, China // edited by Xiaozhen Sheng, David Thompson, Geert Degrande, Jens C. O. Nielsen, Pierre-Etienne Gautier, Kiyoshi Nagakura, Ard Kuijpers, James Tuman Nelson, David A. Towers, David Anderson, Thorsten Tielkes
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819978526 9789819978519
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (782 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	620.37
Soggetti	Multibody systems Vibration Mechanics, Applied Transportation engineering Traffic engineering Noise control Acoustics Multibody Systems and Mechanical Vibrations Transportation Technology and Traffic Engineering Noise Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Keynote Lectures -- Predictions, Measurements, Monitoring and Modelling -- High-Speed Rail and Aerodynamic Noise -- Wheel Out-of-Round and Polygonalisation -- Rail Roughness, Corrugation and Grinding -- Wheel and Rail Noise -- Squeal Noise -- Interior Noise -- Structure-Borne Noise and Ground-Borne Vibration -- Resilient track forms -- Bridge Noise and Vibration -- Pantograph-Catenary System Vibration.
Sommario/riassunto	This book collects original peer-reviewed papers describing the latest

developments in railway noise and vibration from the 14th International Workshop on Railway Noise (IWRN14), held on 7–9 December 2022, in Shanghai, China. It covers a broad range of railway noise and vibration topics, including high-speed rail and aerodynamic noise, wheel and rail noise, curving squeal noise, bridge noise, vehicle interior noise, structure-borne noise, and ground-borne vibration. Further topics such as resilient track forms, wheel out-of-round and polygonalization, rail roughness, corrugation and grinding, etc. are also covered. With the extensive and timely information offered, this book helps scientists and engineers in their daily efforts to identify, understand, and solve problems related to railway noise and vibration and to achieve the ultimate goal of minimizing the environmental impact of railway systems.

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