1. Record Nr. UNINA9910988295203321

Titolo	The 5th International Conference on Vibration and Energy Harvesting Applications (VEH 2024) / / edited by Lihua Tang, Kean Aw, Guobiao Hu, Junlei Wang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9611-91-1
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (VIII, 417 p. 240 illus., 212 illus. in color.)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	621.31
Soggetti	Energy harvesting Electric power production Multibody systems Vibration Mechanics, Applied Microtechnology Microelectromechanical systems Energy Harvesting Mechanical Power Engineering Multibody Systems and Mechanical Vibrations Microsystems and MEMS Engineering Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Vibrational and Rotational Energy Harvesting -- Chapter 2. Nonlinear Energy Harvesting -- Chapter 3. Flow and Wave Energy Harvesting -- Chapter 4. Thermoacoustic Energy Harvesting and Refrigeration -- Chapter 5. Vibration Control, Energy Harvesting and Waveguiding -- Chapter 6. Piezoelectric Materials, Transducers and Circuitry -- Chapter 7. Smart Sensing and Diagnosis.
Sommario/riassunto	This book presents select proceedings of the 5th International Conference on Vibration and Energy Harvesting Applications (VEH 2024). This book covers latest research and technological advances in the field of vibration analysis, energy harvesting, and its applications.

	Topics covered in the book include innovative research works related to vibration analysis, energy harvesting, their applications, and results on the mechanical design, optimization, dynamics, power management circuits and systems, MEMS technology, nanotechnology, new materials, self-powered IoT applications, and other related areas.. The book can be a valuable reference for researchers and professionals interested in vibration analysis, energy harvesting, its applications, and allied fields.

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Record Nr.	UNINA9910557548903321
Autore	Maria Rodriguez-Ibabe Jose
Titolo	Thermomechanical Processing of Steels
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (210 p.)
Soggetti	Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book gathers a collection of papers summarizing some of the latest developments in the thermomechanical processing of steels. The replacement of conventional rolling plus post-rolling heat treatments by integrated controlled forming and cooling strategies implies important reductions in energy consumption, increases in productivity and more compact facilities in the steel industry. The metallurgical challenges that this integration implies, though, are relevant and impressive developments that have been achieved over the last 40 years. The frequency of the development of new steel grades and processing technologies devoted to thermomechanically processed products is increasing, and their implementation is being expended to higher value added products and applications. In addition to the metallurgical peculiarities and relationships between chemical

composition, process and final properties, the relevance impact of advanced characterization techniques and innovative modelling strategies provides new tools to achieve the further deployment of the TMCP technologies. The contents of the book cover low carbon microalloyed grades, ferritic stainless steels and Fe-Al-Cr alloys, medium-Mn steels, and medium carbon grades. Authors of the chapters of this "Thermomechanical Processing of Steels" book represent some of the most relevant research groups from both the steel industry and academia.