1. Record Nr. UNINA9910983350303321

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| Titolo | The Proceedings of 2024 International Conference of Electrical, Electronic and Networked Energy Systems : Volume IV / / edited by Limin Jia, Yanling Lv, Qiang Yang, Liansong Xiong, Dongyang Sun, Yonghui Liu |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025 |
| ISBN | 9789819620500<br>9819620503 |
| Edizione | [1st ed. 2025.] |
| Descrizione fisica | 1 online resource (871 pages) |
| Collana | Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1319 |
| Altri autori (Persone) | LvYanling<br>YangQiang<br>XiongLiansong<br>SunDongyang<br>LiuYonghui |
| Disciplina | 621.31 |
| Soggetti | Electric power production<br>Electronics<br>Electronic circuits<br>Electrical Power Engineering<br>Electronics and Microelectronics, Instrumentation<br>Electronic Circuits and Systems |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Optimization Study of PWM Frequency and Current Ratio for SiC MOSFET/Si IGBT Topology Hybrid Inverter -- Research on Capacitance Voltage Divider Technology Based on Wave Impedance Matching -- Reactive power optimization of power plant auxiliary system considering renewable energy access -- Research on Methods to Improve the Loading Capacity of Capacitive Voltage Dividers -- The effect of frictional vibration on the current collection quality of the pantograph-catenary system -- Grid Forming Control of Grid-Connected Converters with Enhanced Frequency and Voltage Support Capability -- Research on Grid-Tied Inverters with Virtual Impedance |

Control using Bandpass Filter -- Cation-Modified Vermiculite for Battery Fire Extinguishing -- Target Power Allocation Method for Multi Frequency and Multi Load Inductively Coupled Power Transmission System -- Design and Analysis of Tubular Permanent Magnet Linear Generator.

Sommario/riassunto

This conference is one of the most significant annual events of the China Electrotechnical Society, showcasing the latest research trends, methodologies, and experimental results in electrical, electronic, and networked energy systems. The proceedings cover a wide range of cutting-edge theories and ideas, including topics such as power systems, power electronics, smart grids, renewable energy, energy integration in transportation, advanced power technologies, and the energy internet. The aim of these proceedings is to provide a key interdisciplinary platform for researchers, engineers, academics, and industry professionals to present groundbreaking developments in the field of electrical, electronic, and networked energy systems. It also offers engineers and researchers from academia, industry, and government a comprehensive view of innovative solutions that integrate concepts from multiple disciplines. These volumes serve as a valuable reference for researchers and graduate students in electrical engineering.