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Autore	Garcia Marquez Fausto Pedro
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Sommario/riassunto	This book presents the proceedings of the 4th International Conference on Advanced Engineering, Technology, and Applications in Power Systems (ICAETA25), held at Shenyang University of Technology, Liaoning, China, from July 31 to August 1, 2025. It features cutting-edge research and practical innovations addressing real-world challenges in power systems, with a strong emphasis on the latest developments in artificial intelligence, machine learning, big data, cloud computing, the Internet of Things, and sensor technologies. Readers will find state-of-the-art models, benchmark datasets, and insightful analyses that bridge theoretical advancements with applied engineering solutions, offering a comprehensive view of how intelligent technologies are transforming the power sector and related domains.