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Sommario/riassunto	This book provides insights into cutting-edge developments in energy materials, devices, and systems, as presented at the International Conference on Advanced Energy Materials, Devices, and Systems (AEMDS 2024) in Ningbo, China, from June 28 to 29, 2024. Focusing on the global demand for high-performance energy storage devices, the conference explores advancements in materials crucial for their development. AEMDS 2024 serves as a platform for discussions on experimental breakthroughs, ongoing developments, and practical applications in the field. Keynote and invited speakers from the global energy domain contribute to a dynamic exchange of ideas, promoting a deeper understanding of emerging energy materials and their applications across various research fields.