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| Nota di contenuto | Introduction to the electric grid -- Generation -- Transmission -- Distribution -- Equipment and components -- Information and operating technologies -- Distribution utility operations -- The regulatory environment -- Utility finances -- The challenges & opportunities ahead. |
| Sommario/riassunto | "The electrical grid stands as a remarkable achievement in engineering and management, serving as a vital catalyst for the development and progress of nations worldwide. This book aims to demystify the grid, presenting its intricacies in layman terms to provide a comprehensive understanding of its functioning. Emphasizing the three fundamental pillars-generation, transmission, and distribution-the book illustrates their convergence in powering the world. Furthermore, it explores the significant transformation underway as emerging technologies and renewable resources contribute to the evolution of a more decentralized system. Encompassing all facets of the grid, including equipment, software systems, operations, regulatory aspects, financing, and future challenges, this book offers a holistic perspective on this essential infrastructure"-- |