

1. Record Nr.	UNISALENTO991002811399707536
Autore	Curi, Umberto
Titolo	Endiadi : figure della duplicità / Umberto Curi
Pubbl/distr/stampa	Milano : Feltrinelli, 1995
ISBN	8807101793
Descrizione fisica	174 p. ; 22 cm.
Collana	Campi del Sapere / Feltrinelli
Soggetti	Alterità Duplicità Identità
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910747598903321
Autore	Ge Leijiao
Titolo	Smart Power Distribution Network : Situation Awareness, Planning, and Operation / / by Leijiao Ge, Yuanzheng Li
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819967582 9819967589
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (245 pages)
Collana	Power Systems, , 1860-4676
Altri autori (Persone)	LiYuanzheng
Disciplina	321.319
Soggetti	Electric power distribution Automatic control Machine learning Energy Grids and Networks Control and Systems Theory Machine Learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di contenuto

Chapter 1. System overview -- Chapter 2. Smart distribution power network situation awareness -- Chapter 3. Photovoltaic prediction, virtual collection -- Chapter 4. Multi-energy load forecasting of integrated energy system -- Chapter 5. Optimal planning of energy storage considering uncertainty of load and wind generation -- Chapter 6. Energy supplying facilities planning for electric vehicles -- Chapter 7. Multiple equipment planning for integrated energy system -- Chapter 8. ay-ahead risk averse market clearing considering demand response -- Chapter 9. Optimal operation via cooperative energy and reserve scheduling -- Chapter 10. Optimal interaction strategy for vehicle-to-grid -- Chapter 11. Concluding remarks.

Sommario/riassunto

The surge in renewable and distributed energy sources has posed significant challenges for smart power distribution network (SPDN). These challenges fall into two main categories: the unpredictability of renewable energy sources and the complexities introduced by numerous electrical devices and their interdependencies, affecting forecasting and operational performance. As the emphasis on SPDN's economic and environmental aspects grows, this book focuses on the vital themes of sustainability and cost-efficiency in SPDN forecasting, planning, and operation. It is structured into three key parts: 1. SPDN Situation Awareness: This section assesses prior research methods, analyzes their shortcomings while dissecting SPDN's unique situation awareness characteristics. Then, some forecast and virtual collection methods are presented. 2. Boosting SPDN Planning: Addressing optimal planning challenges in SPDN, this part introduces advanced modelling and algorithm solving techniques, tailored to mitigate SPDN's inherent uncertainty. 3. Enhancing SPDN Operation: Considering a variety of equipment types and controllable loads, this section explores strategies to boost SPDN operational performance. It covers control methodologies for electric vehicles, flexible loads, energy storage, and related equipments, etc. Tailored for university researchers, engineers, and graduate students in electrical engineering and computer science, this book is a valuable resource for comprehending SPDN's situation awareness, planning, and operation intricacies in the context of sustainability and economic efficiency.
