

1. Record Nr.	UNINA9910779032603321
Titolo	Handbook of Networks in Power Systems I [[electronic resource] /] / edited by Alexey Sorokin, Steffen Rebennack, Panos M. Pardalos, Niko A. Iliadis, Mario V. F. Pereira
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	1-280-80294-4 9786613711298 3-642-23193-4
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (583 p.)
Collana	Energy Systems, , 1867-8998
Disciplina	621.31
Soggetti	Calculus of variations Operations research Decision making Energy systems Calculus of Variations and Optimal Control; Optimization Operations Research/Decision Theory Energy Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I -- Electricity -- Network.
Sommario/riassunto	Energy has been an inevitable component of human lives for decades. Recent rapid developments in the area require analyzing energy systems not as independent components but rather as connected interdependent networks. The Handbook of Networks in Power Systems includes the state-of-the-art developments that occurred in the power systems networks, in particular gas, electricity, liquid fuels, freight networks, as well as their interactions. The book is separated into two volumes with three sections, where one scientific paper or more are included to cover most important areas of networks in power systems. The first volume covers topics arising in electricity network, in particular electricity markets, smart grid, network expansion, as well as

risk management. The second volume presents problems arising in gas networks; such as scheduling and planning of natural gas systems, pricing, as well as optimal location of gas supply units. In addition, the second volume covers the topics of interactions between energy networks. Each subject is identified following the activity on the domain and the recognition of each subject as an area of research. The scientific papers are authored by world specialists on the domain and present either state-of-the-arts reviews or scientific developments.
