1. Record Nr. UNINA9910693140203321

Titolo	Endangered Species Act [[electronic resource]] : 2001 progress report for the Federal Columbia River Power System / / U.S. Department of the Interior, Bureau of Reclamation, U.S. Army Corps of Engineers, Northwestern Division, Bonneville Power Administration
Pubbl/distr/stampa	[Portland, Or.] : , : [Federal Caucus], , [2002]
Soggetti	Salmon - Effect of dams on - Columbia River Watershed Dams - Environmental aspects - Columbia River Watershed Endangered species - Law and legislation - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on Dec. 23, 2004). "May 2002." The Federal Caucus is the name given to the nine Federal agencies that have natural resource responsibilities under the Endangered Species Act. These agencies include: National Marine Fisheries Service; US Fish and Wildlife Service; Bonneville Power Administration; US Army Corps of Engineers; US Bureau of Reclamation; Environmental Protection Agency; US Forest Service; Bureau of Land Management; and the Bureau of Indian Affairs.

2.	Record Nr.	UNINA9911019903903321
	Autore	Shafiee Qobad
	Titolo	Microgrids : Dynamic Modeling, Stability and Control
	Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
	ISBN	9781119906230 1119906237 9781119906216 1119906210
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (446 pages)
	Altri autori (Persone)	NaderiMobin BevraniHassan
	Disciplina	621.31
	Soggetti	Microgrids (Smart power grids) Electric power system stability
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- About the Authors -- Preface -- Acknowledgments -- Acronyms -- Chapter 1 Introduction -- 1.1 Overview -- 1.2 Microgrid Concept and Capabilities -- 1.3 Microgrid Structure -- 1.4 Microgrids in the Future Smart Grids -- 1.5 MicrogridsIntegrated Power Grids -- 1.6 Current Trends and Future Directions -- 1.6.1 Dynamic Behavior of MGs and Their Impacts on Power Grids -- 1.6.2 MicrogridBased Ancillary Services -- 1.6.3 Dynamic Modeling and Control -- 1.7 The Book Content and Organization -- References -- Part I Individual Microgrids -- Chapter 2 Microgrid Dynamic Modeling: Concepts and Fundamentals -- 2.1 Introduction -- 2.2 Dynamics and Modeling -- 2.3 Fundamental Analysis Tools and Requirements -- 2.3.1 StateSpace (SmallSignal) Modeling -- 2.3.1.1 Finding Differential Equations -- 2.3.1.2 Park and Clark Transformations -- 2.3.1.3 Linearization -- 2.3.1.4 StateSpace Representation -- 2.3.1.5 Interconnecting Modules -- 2.3.2 Detailed Modeling -- 2.3.3 Simplification Methods -- 2.3.3.1 Truncation (Regular Perturbation) -- 2.3.3.2 Residualization (Singular Perturbation) -- 2.3.3.3 Aggregation -- 2.3.3.4 Sensitivity Analysis -- 2.3.4 Prony

Sommario/riassunto

This book delves into the dynamic modeling, stability, and control of microgrids, offering a comprehensive overview of microgrid technology as a solution for modern power grid challenges. It discusses the basic structures, types, operating modes, and hierarchical control levels of microgrids. The authors, Qobad Shafiee, Mobin Naderi, and Hassan Bevrani, provide insights into advanced control synthesis approaches and virtual dynamic control, supported by real-time simulations and experimental studies. The book is designed for researchers and professionals in electrical engineering, focusing on the integration of microgrids into existing power systems, and aims to enhance understanding of microgrid dynamics and stability through practical applications and theoretical analysis.