Contents

Overview on Microgrids: Technologies, Control and Communications ............................................. 1
Antonio Carlos Zambroni de Souza, D.Q. Oliveira, Diogo Marujo, F.M. Portelinha, Jr. and B. De Nadai N

Hybrid Nanogrid Systems for Future Small Communities ............... 19
Farhad Shahnia

Interconnected Microgrid Systems for Remote Areas ....................... 39
Farhad Shahnia

Distributed Agent-Based Coordinated Control for Microgrid Management .............................................. 65
M.S. Rahman and A.M.T. Oo

Sustainable Development of Energy Systems in the Baltic Region ...... 83
Jurijs Spiridonovs and Olga Bogdanova

Active Distribution Networks Operation Within a Distribution Market Environment ........................................ 107
Geev Mokryani

Critical Performance Evaluation of a Few Intelligent Controllers for Effective Power Control in Variable Speed Wind Generators .... 119
Rajiv Singh and Asheesh Kumar Singh

Power Flow Constrained Short-Term Scheduling of CHP Units ........ 147
Manijeh Alipour, Kazem Zare and Heresh Seyedi

Optimal Utilization of Solar Energy Resources in Hungary .......... 167
Attila Talamon and Bálint Hartmann
Microgrids Operation in Islanded Mode ........................................ 193
A.C. Zambroni de Souza, B. De Nadai N., F.M. Portelinha, Jr.,
Diogo Marujo and D.Q. Oliveira

Islanding of Energy System ...................................................... 217
Jayesh Joglekar
Sustainable Development in Energy Systems
Azzopardi, B. (Ed.)
2017, XIV, 231 p. 115 illus., Hardcover
ISBN: 978-3-319-54806-7