## Contents

1. Reliability Assessment of Power Grid Supporting Sustainable Transportation .......................... 1  
   Xue Wang and Rajesh Karki

   Peng Wang, Jianfang Xiao, Chi Jin, Xiaoqing Han and Wenping Qin

3. Low Voltage Ride Through of Wind Energy Systems ............... 41  
   Tarafdar Hagh Mehrdad and Kashem Mohammad Muttaqi

4. Reliability Evaluation of Distribution System with Network Reconfiguration and Distributed Generations ............... 61  
   P. Pavani and S.N. Singh

5. Tracing the Unreliability and Recognizing the Weak Parts of a Power System ......................... 89  
   Kaigui Xie

6. Sustainable Energy Optimization in a Smart Microgrid ............... 111  
   Ryan Jansen and Rajesh Karki

7. Renewable Energy Generation System Expansion Planning ............... 133  
   Jaeseok Choi

8. Microhydro-Based Mini grid for Sustainable Development of Rural Communities: A Case Study of Nepal ............... 151  
   Netra Pd. Gyawali
Sustainable Power Systems
Modelling, Simulation and Analysis
2017, XIV, 174 p. 76 illus., Hardcover
ISBN: 978-981-10-2229-6