



Multilevel Converter for Grid Connected PV Applications

By Mostafa Mosa

LAP Lambert Academic Publishing Jun 2013, 2013. Taschenbuch. Book Condition: Neu. 221x149x12 mm. Neuware - As the world's energy use continues to grow, the development of clean distributed generation becomes increasingly important. Solar cells are an environmentally friendly renewable energy source that can be used in a wide range of applications and are ideal for distributed power applications. This book investigates the interfacing between photovoltaic power systems and the utility grid. It focuses on the design of Switched Inductor Multilevel Boost Converter (SIMLBC), the efficiency of the Power Conditioning System (PCS), and reliability issues related to such intelligent power electronic interface. This book is interesting to engineering students, beginners and advanced researchers who are involved in state-of-art renewable energy technologies and power conversion. To assist the validity of the proposed system, a low power prototype system has been designed and implemented; analytical, simulation, and experimental results have been provided. Several experimental case study tests have been executed to validate the proposed analyses. Simulation and hardware results have been presented. 136 pp. Englisch.



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