

1. Record Nr.	UNINA9910866581103321
Autore	Yin Yunfei
Titolo	Robust Control Strategies for Power Electronics in Smart Grid Applications / / by Yunfei Yin, Lei Liu, Zhijian Hu, Hao Lin, Ligang Wu
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031531880
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (219 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1034
Altri autori (Persone)	LiuLei HuZhijian LinHao WuLigang
Disciplina	621.317
Soggetti	Electrical engineering Automatic control Electric power production Electrical and Electronic Engineering Control and Systems Theory Electrical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	General Introduction -- Cascade Control for Three Phase Two-Level Power Converters -- Robust High-Quality Current Control for Three-Level NPC Converters -- Direct Power Control for Three-Level NPC Converters -- Fuzzy Sliding Mode Control for Three-Level NPC Converters -- Sliding Mode Control for Power Converters under Unbalanced Grid Conditions -- Adaptive Optimal Control for PMSM Servo System -- Model Predictive Control for Load Frequency Regulation with PEVs -- Credibility-Based Distributed Frequency Estimation for PEVs -- Conclusion and Further Work.
Sommario/riassunto	Navigating the forefront of smart grid technology, the book, "Robust Control Strategies for Power Electronics in Smart Grid Applications," delves into innovative approaches, offering a fresh perspective on how to address the dynamic challenges in this field. With a focus on robust control strategies, the book provides a comprehensive exploration of

diverse power converter configurations, presenting novel solutions for achieving optimal efficiency and performance in smart grid applications.
