



Introduction to Modern Power Electronics

Andrzej M. Trzynadlowski

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Introduction to Modern Power Electronics Andrzej M. Trzynadlowski

Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field

This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described, complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor's manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of power electronic converters.

Introduction to Modern Power Electronics, Third Edition:

- Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac
- Reviews advanced control methods used in today's power electronic converters
- Includes an extensive body of examples, exercises, computer assignments, and simulations

Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.

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