



# Introduction to Modern Power Electronics

By Andrzej M. Trzynadlowski

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**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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**Andrzej M. Trzynadlowski, PhD**, is professor at the Department of Electrical and Biomedical Engineering, University of Nevada. He has published extensively in the areas of power electronics and electric drives, maintaining fruitful collaboration with a number of universities around the world. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE); a member of the Industrial Power Converters Committee and Industrial Drives Committee of the IEEE Industry Applications Society; and an Associate Editor of the IEEE Transactions on Power Electronics.

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