
1

Introduction

1.1 INTRODUCTION TO POWER PROCESSING

The field of power electronics is concerned with the processing of electrical power using electronic devices [1–7]. The key element is the *switching converter*, illustrated in Fig. 1.1. In general, a switching converter contains power input and control input ports, and a power output port. The raw input power is processed as specified by the control input, yielding the conditioned output power. One of several basic functions can be performed [2]. In a *dc–dc converter*, the dc input voltage is converted to a dc output voltage having a larger or smaller magnitude, possibly with opposite polarity or with isolation of the input and output ground references. In an *ac–dc rectifier*, an ac input voltage is rectified, producing a dc output voltage. The dc output voltage and/or ac input current waveform may be controlled. The inverse process, *dc–ac inversion*, involves transforming a dc input voltage into an ac output voltage of controllable magnitude and frequency. *Ac–ac cycloconversion* involves converting an ac input voltage to a given ac output voltage of controllable magnitude and frequency.

Control is invariably required. It is nearly always desired to produce a well-regulated output

Fig. 1.1 The switching converter, a basic power processing block.



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Nigel P. Cook



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Instructor's Manual with Solutions to Accompany Electrical and Electronics Fundamentals Vincent A. Suprynawicz, 1987

Solutions Manual for Introduction to Modern Power Electronics Andrzej M. Trzynadlowski, 2000-06-05 A concise thorough introduction to modern power electronics This comprehensive overview of the modern tools and techniques of electric power conversion covers the fundamentals of power electronics Unlike other textbooks on the subject which often include a great deal of extraneous information Introduction to Modern Power Electronics presents essential material that can be covered easily in a one semester course This streamlined text examines low medium and high power conversion issues and the electronic converters that process power for a variety of applications Following recent trends in power electronics technology greater stress is placed on pulse width modulated PWM converters than in any other textbook Modern power electronic converters such as the resonant dc link and multilevel inverters or matrix converters are thoroughly covered Special features include Comprehensive easy to understand coverage of the principles and methods of electric power conversion using a hypothetical generic power converter Descriptions of various types of semiconductor power switches and complementary components and systems for power electronic converters In depth discussions of all power conversion types ac to dc ac to ac dc to dc and dc to ac Separate chapter on switching power supplies A companion set of 48 PSpice circuit files available on the Internet constitutes a virtual laboratory of power

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Principles of Power Electronics John G. Kassakian, Martin F. Schlecht, George C. Verghese, 1991-01-01 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1969

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