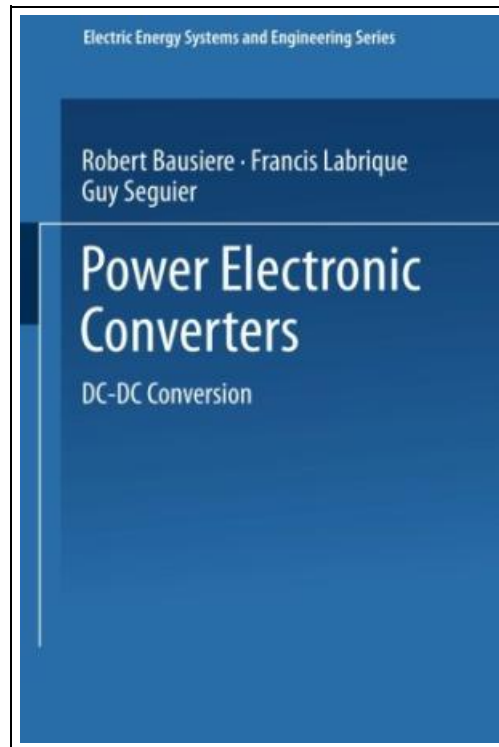


Power Electronic Converters: DC-DC Conversion



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(Rodger Hane)

POWER ELECTRONIC CONVERTERS: DC-DC CONVERSION



Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Condition: New. 402 pages. Dimensions: 8.9in. x 6.1in. x 1.2in. This book is the third in a series of four devoted to power electronic converters. The first and second of these books concern AC to DC conversion. This volume examines DC to DC conversion. The fourth is devoted to DC to AC conversion. DC-DC converters are probably the most widely used since their field of application extends from small power Switch- Mode Power Supplies to high power Choppers for traction applications. Chapter 1 examines general notions concerning converters, supplies and loads, and more especially, how they can be characterized with regard to commutations. Chapter 2 presents power semiconductor devices: diodes, thyristors (conventional and GTO), transistors (bipolar, MOS, IGBT, . . .) and associations. As commutations are an essential phenomenon in DC-DC converters, the transient behaviour of these devices is analyzed in detail. Chapter 3 gives a general presentation of chopper structures. Chapter 4 provides a quantitative analysis of the most common types of choppers with direct energy transfer. Chapter 5 examines the most commonly used procedures employed for turning off thyristors in choppers. The most widely used configurations of switch mode power supplies form the basis of the analysis in chapter 6. An appendix is devoted to snubbers. An important bibliography is added. The aim of this collection written by university specialists working in close cooperation with industry, is to present an up-to-date synthesis in the field of electrical engineering in rapid evolution and fast development. Their guiding principle is to provide an useful and practical tool to power electronics specialists, whether they are designers or users of power converters, in activity or graduating. This item ships from multiple locations. Your book may arrive from...



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