Electric Power Converters in Power Systems-Amirrazae Yazdani 2018-03-25 Presents Fundamentals of Modeling, Analysis, and Control of Electric Power Converters for Power System Applications Electronic (static) power converter has gained widespread acceptance in power system applications, electronic power converters are increasingly employed for power conversion and conditioning, compensation, and active filtering. This book presents the fundamentals for analysis and control of a specific class of high-power electronic converters—the three-phase voltage-source converter (VSC). Voltage-Source Converters in Power Systems provides a deeper understanding of the principles of operation between the applications of voltage-source converters. The book discusses the interactions between the applications of voltage-source converters. The book covers a wide range of applications that have been described in other papers—such as voltage control, power factor correction, and active filtering. Voltage-Source Converters in Power Systems is an ideal reference for senior undergraduate and graduate students in power engineering programs, practicing engineers who deal with grid integration and operation of distributed energy systems, design engineers, and researchers in the area of electric power generation, transmission, distribution, and utilization. The book is also an excellent introduction to the new and rapidly developing field of voltage-source converter technologies. The Electric Power Electronics Handbook, in a single volume, has the field covered. The book introduces electronic power systems in the most effective way. For those who need to operate electric power systems, this book presents the features, solutions and applications of the power electronics arrangements useful for future smart electric energy systems.

Power Electronics-M. D. Singh 2008-07-07 With this revised edition we aim to present a text on electronic power electronics for the UG level which will provide a comprehensive coverage of converters, choppers, inverters and motor drives. All this, with a rich pedagogic support to provide a solid, integrated and practical understanding of basic Power Electronics. The book is well-organized, with a wealth of examples, illustrations, and problems. The book has been extensively used in teaching and learning at the undergraduate level.

Power Semiconductor Devices and Circuits-Andrzej A. Jankowski 1992 Proceedings of an international symposium held in Baden-Dättwil, Switzerland, in September 1991. Papers are divided into four sections: modern power devices, simulation, circuits and control concepts, and future trends. Among the topics are the MOS controlled thyristor, high-power reverse conduction?

Power Electronics and Motor Drive Systems-Stefan W. Manias 2016-02-02 Power Electronics and Motor Drive Systems is designed to aid electrical engineers, researchers, and students to analyze and understand complex problems in the area of power electronics. The book provides an introduction to the field of power electronics, covering basic concepts such as power converters, control systems, and applications. It also discusses advanced topics such as power factor correction, harmonic analysis, and power quality issues.

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