



Power Electronics: Devices, Circuits, and Industrial Applications

V. R. Moorthi

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Power Electronics: Devices, Circuits and Industrial Applications would serve as an invaluable text for undergraduate and postgraduate courses on power electronics. It would also be a useful reference for practicing design engineers. The book provides an exhaustive coverage of various power electronic devices with emphasis on the thyristor. The characteristics of modern power semiconductor devices like the power transistor, MOSFET and the IGBT are also discussed. Other relevant topics like cycloconverters, brushless DC motors, microprocessor fundamentals, microprocessor control of industrial equipment, and field-oriented control of AC motors, are dealt with in detail. With its in-depth presentation of topics, detailed and easy-to-understand derivations, the emphasis of the book is on the understanding of fundamental concepts. The theory is well-supported by a large number of solved and unsolved problems and multiple choice questions. The lucid treatment in the book encourages self-study and motivates the student towards independent problem solving.

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