



# Power Electronics: Devices, Circuits, and Industrial Applications

By 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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Review

"This is an excellent book...Overall, the book is remarkable for its brevity and, at the same time, its comprehensiveness. One envies students who will learn from such an excellent single source for understanding and appreciating the design, performance, and application of modern power electronic devices, circuits, and industrial applications." --*CHOICE*

About the Author

Dr. V.R. Moorthi, a PhD in Electrical Engineering from Indian Institute of Technology Kanpur, has over 25 years of teaching both at undergraduate and graduate levels and over 10 years of industry experience.

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