



# Power Electronics: Circuits, Devices & Applications (3rd Edition)

By Muhammad H. Rashid



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This state-of-the-art book covers the basics of emerging areas in power electronics and a broad range of topics such as power switching devices, conversion methods, analysis and techniques, and applications. Its unique approach covers the characteristics of semiconductor devices first, and then discusses the applications of these devices for power conversions. Well-written and easy-to-follow, the book features numerous worked-out examples that demonstrate the applications of conversion techniques in design and analysis of converter circuits. Chapter topics include power semiconductor diodes and circuits, diode rectifiers, power transistors, DC-DC converters, pulse-width modulated inverters, thyristors, resonant pulse inverters, multilevel inverters, controlled rectifiers, AC voltage controllers, static switches, flexible ac transmission systems, power supplies. DC and AC drives, gate drive circuits, and protection of devices and circuits. For individuals in interested in the fields of electrical and electronic engineering.

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### Power Electronics: Circuits, Devices & Applications (3rd Edition) By Muhammad H. Rashid Bibliography

• Sales Rank: #4711317 in Books

• Published on: 2008

• Original language: English

• Dimensions: .0" h x .0" w x .0" l, 2.76 pounds

• Binding: Paperback

• 908 pages

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