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

POWER ELECTRONICS

CIRCUITS, DEVICES, AND APPLICATIONS

THIRD EDITION

MUHAMMAD H. RASHID
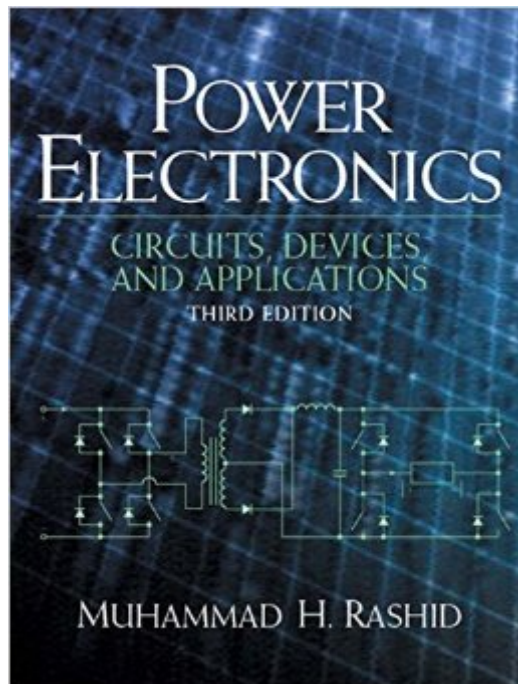
Synopsis

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.

Book Information

Paperback: 912 pages

Publisher: Pearson; 3 edition (August 14, 2003)

Language: English

ISBN-10: 0131011405

ISBN-13: 978-0131011403

Product Dimensions: 7 x 1.9 x 9.1 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars   27 customer reviews

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Customer Reviews

An exploration of the state-of- the-art in power conversion techniques and power semiconductor devices. --This text refers to the Hardcover edition.

Muhammad H. Rashid received the B.Sc. degree in electrical engineering from the Bangladesh University of Engineering and Technology and the M.Sc. and Ph.D. degrees from the University of

Birmingham, UK. Currently, he is a Professor of electrical engineering with the University of Florida and the Director of the OF/UWF Joint Program in Electrical and Computer Engineering. Previously, he was a Professor of electrical engineering and the Chair of the Engineering Department at Indiana University-Purdue University at Fort Wayne. In addition, he was a Visiting Assistant Professor of electrical engineering at the University of Connecticut, Associate Professor of electrical engineering at Concordia University (Montreal, Canada), Professor of electrical engineering at Purdue University, Calumet, and Visiting Professor of electrical engineering at King Fahd University of Petroleum and Minerals, Saudi Arabia. He has also been employed as a design and development engineer with Brush Electrical Machines Ltd. (UK), as a Research Engineer with Lucas Group Research Centre (UK), and as a Lecturer and Head of Control Engineering Department at the Higher Institute of Electronics (Malta). He is actively involved in teaching, researching, and lecturing in power electronics. He has published 14 books and more than 100 technical papers. His books have been adopted as textbooks all over the world. His book Power Electronics has been translated into Spanish, Portuguese, Indonesian, Korean and Persian. His book Microelectronics has been translated into Spanish in Mexico and Spain. He has had many invitations from foreign governments and agencies to be a keynote lecturer and consultant, from foreign universities to serve as an external Ph.D. examiner, and from funding agencies to serve as a research proposal reviewer. His contributions in education have been recognized by foreign governments and agencies. He has previously lectured and consulted for NATO for Turkey in 1994, UNDP for Bangladesh in 1989 and 1994, Saudi Arabia in 1993, Pakistan in 1993, Malaysia in 1995 and 2002, and Bangkok in 2002, and has been invited by foreign universities in Australia, Canada, Hong Kong, India, Malaysia, Singapore to serve as an external examiner for undergraduate, master's and Ph.D. degree examinations, by funding agencies in Australia, Canada, United States, and Hong Kong to review research proposals, and by U.S. and foreign universities to evaluate promotion cases for professorship. He has previously authored seven books published by Prentice Hall: Power Electronics–Circuits, Devices, and Applications (1988, 2/e 1993), SPICE For Power Electronics (1993), SPICE for Circuits and Electronics Using Pspice (1990, 2/e 1995), Electromechanical and Electrical Machinery (1986), and Engineering Design for Electrical Engineers (1990). He has authored five IEEE self-study guides: Self-Study Guide on Fundamentals of Power Electronics, Power Electronics Laboratory Using PSpice, Selected Readings on SPICE Simulation of Power Electronics, and Selected Readings on Power Electronics (IEEE Press, 1996) and Microelectronics Laboratory Using Electronics Workbench (IEEE Press, 2000). He also wrote two books: Electronic Circuit Design using Electronics Workbench (January 1998), and Microelectronic

Circuits Analysis and Design (April 1999) by PWS Publishing). He is editor of Power Electronics Handbook published by Academic Press, 2001. Dr. Rashid is a registered Professional Engineer in the Province of Ontario (Canada), a registered Chartered Engineer (UK), a Fellow of the Institution of Electrical Engineers (IEE, UK) and a Fellow of the Institute of Electrical and Electronics Engineers (IEEE, USA). He was elected as an IEEE Fellow with the citation "Leadership in power electronics education and contributions to the analysis and design methodologies of solid-state power converters." He was the recipient of the 1991 Outstanding Engineer Award from The Institute of Electrical and Electronics Engineers (IEEE). He received the 2002 IEEE Educational Activity Award (EAB) Meritorious Achievement Award in Continuing Education with the citation "for contributions to the design and delivery of continuing education in power electronics and computer-aided-simulation". He was also an ABET program evaluator for electrical engineering from 1995 to 2000 and he is currently an engineering evaluator for the Southern Association of Colleges and Schools (SACS, USA). He has been elected as an IEEE-Industry Applications Society (IAS) Distinguished Lecturer. He is the Editor-in-Chief of the Power Electronics and Applications Series, published by CRC Press.

Rashid's textbook on power electronics lacks clear explanations of basic concepts, not to mention the poor writing style. I would suggest not to waste money on this text as professors/instructors who assign it as a required material are somehow affiliated with Rashid.

It was good

I purchased this book as a required text for a class I am taking. Overall, the material presented in the book is pretty good and clearly communicated. There are many examples to review and practice problems.One complaint is that there are many errors in the example problems and equations. Some exponents are missing or equations written differently on different pages. I would expect these bugs to be worked out long before the 3rd edition. Other than that the book good.The biggest problem I have is with the quality of the binding. I have only used the book for 3 weeks and the binding is already falling apart. Some pages have fallen out and many more are loose. I would definetly recommend getting the hardbound edition unless you never plan to actual use the book.

better than the 4th edition!

excellent delivery, It got a little damaged on the corner hardcover, but overall it looks clean inside.

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I loved it. it came as described. I have been using it ever since and I don't have any problems.

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