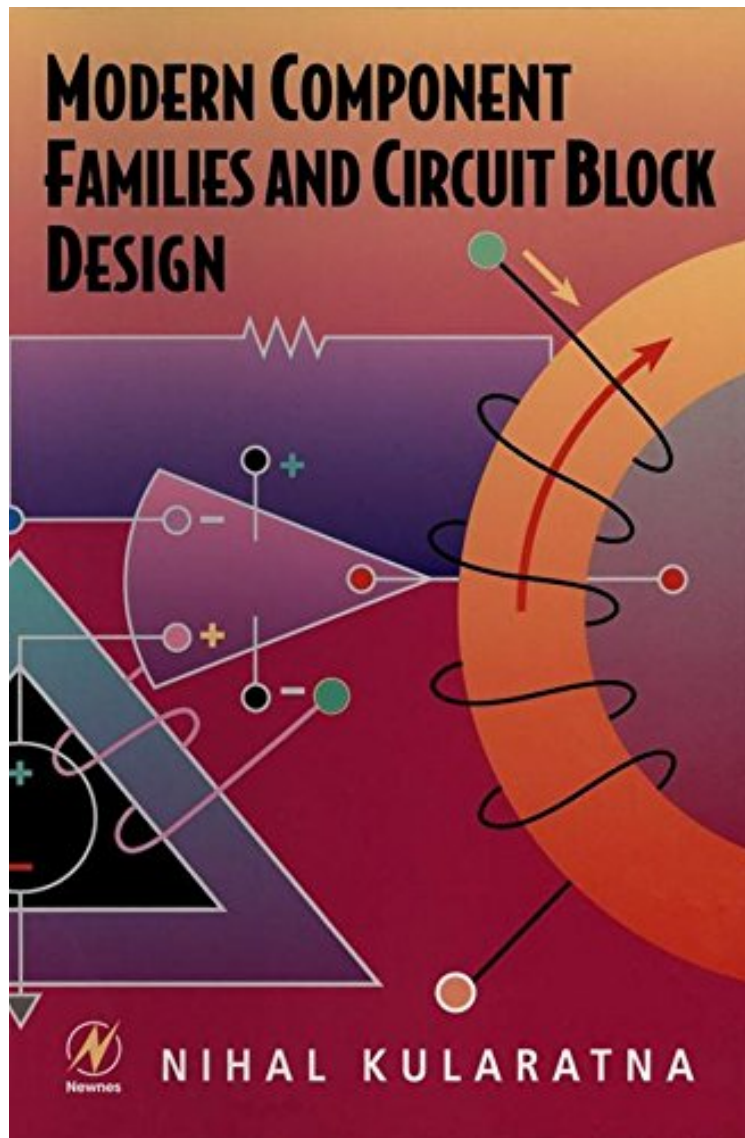


Modern Component Families and Circuit Block Design

Nihal Kularatna

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Nihal Kularatna : Modern Component Families and Circuit Block Design before purchasing it in order to gage whether or not it would be worth my time, and all praised Modern Component Families and Circuit Block Design:

5 of 5 people found the following review helpful. The Best CompanionBy Bosah ChukwuogoIf you are looking for a reference book that you will want to refer to from to time, this book will be one to tresure. I used it as a suppliment for Electrical Engineering class in Circuit design. It worked well for me becasue it explained everything in a fairly clear manner. And at the end of the semester I made an A in the class. Don't miss out on this one.

Kularatna's new book describes modern component families and how to design circuit blocks using them. While much of this information may be available elsewhere, in *Modern Component Families and Circuit Block Design* it is integrated with additional design hints that are unique. The discussion covers most components necessary in an embedded design or a DSP-based real time system design. The chapter on modern semi-conductor sensors allows system designers to use the latest sensor ICs for real-world physical parameter sensing. *Covers the most recent low-power components* *Written by an authority on power electronics* *Includes extensive illustrations and references

. . .this book can serve as a valuable resource and application idea source for upper-division undergraduate students and faculty involved in electronic design activities; professional design engineers; and two-year technical program students.- E.M. Aupperle, University of Michigan This volume effectively assembles various design strategies and information previously found only scattered in a vast array of technical application notes, engineering bulletins, and electronic data books. The volume also offers significant knowledge on critical characteristics and parameters for these building blocks, as well as a look at the relative strengths and weaknesses of different implementations...The book is successful enough to grant a designer's viewpoint on modern components and appends a practical approach to design problems rather than a generic analysis of broad engineering issues. Since the text emphasizes both fundamentals and new paradigms that are essential in modern circuit design, it is undoubtedly a good compendium for classroom usage and industrial practice. The major advantage of this book is its utilization of a lucid, intuitive language to gradually develop the reader's understanding of important concepts in modern electronic component systems and circuit design. Given this approach, Kularatna's readers will find the book beneficial not only to reinforce their technical foundation, but also to update themselves with the ever-altering electronic component systems technology...In sum, *Modern Component Families and Circuit Block Design* is a book that electrical and electronic engineering senior undergraduate and (advanced) graduate students, designers, practitioners, academicians, or researchers should find extremely interesting, informative - and perhaps most important - refreshingly different. - *IEEE Circuits and Devices Magazine*, Sept./Oct. 2004 From the Publisher Each chapter describes a component family and then includes information on the basics of operation, new technologies that are developing, block diagrams and associated waveforms, parameters of operation, quality measurements for component comparison, the basic cost of parts and design work using these parts, as well as complete listing of advantages and disadvantages when used in circuit design. Within each chapter the author compares and contrasts the specific components according to part number and manufacturer, allowing the reader greater insight into the importance of choosing the right part for the job. *Modern Component Families and Circuit Block Design* also provides valuable information on how each type of component works with current manufacturing processes and design fixes to overcome production problems. About the Author Nihal Kularatna is the author of *Power Electronics Design Handbook*. He is an electronics engineer with over 30 years of experience in professional and research environments. He is a Fellow of the IEE (London), a Senior Member of IEEE (USA) and an honors graduate from University of Peradeniya, Sri Lanka. Presently, he is a Senior Lecturer in the Department of Engineering, the University of Waikato, New Zealand. He worked at the Arthur C. Clarke Institute for Modern Technologies (ACCIMT) in Sri Lanka as a Research and Development Engineer until 1990 when he reached Principal Researcher Engineer status. He was then appointed as CEO of ACCIMT in 2000. From 2002 to 2005 he was a Senior Lecturer at the Department of Electrical and Electronic Engineering, University of Auckland. He is currently active in research in transient propagation and power conditioning area in power electronics, embedded processing applications for power electronics, and smart sensor systems. He has authored five books and is currently working on his sixth. His hobby is gardening cacti and succulents.