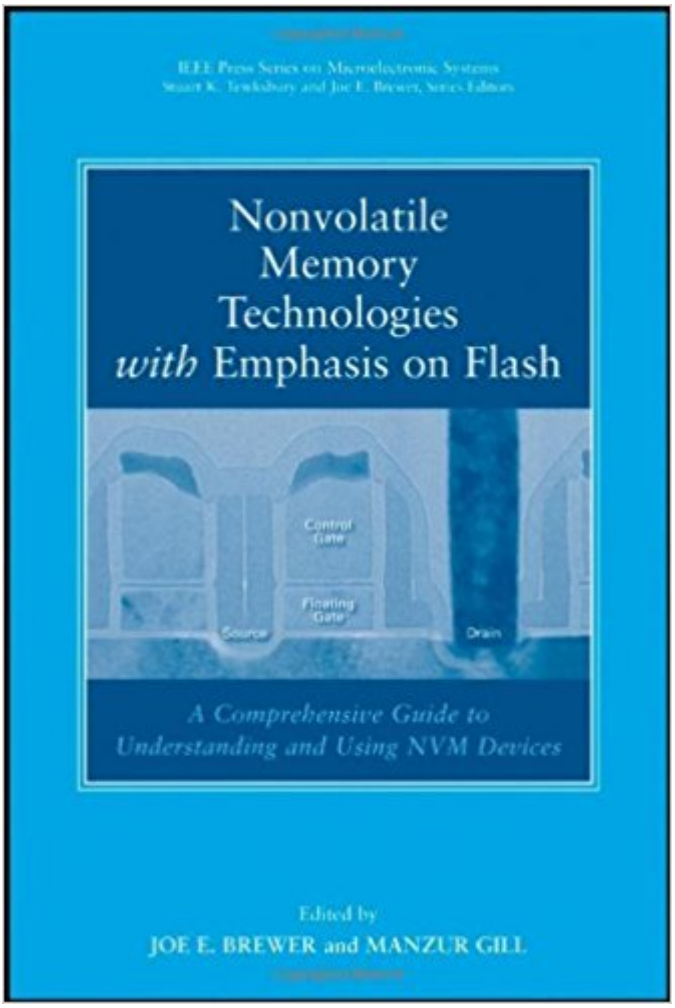
Nonvolatile Memory Technologies With Emphasis On Flash: A Comprehensive Guide To Understanding And Using Flash Memory Devices

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Synopsis

Presented here is an all-inclusive treatment of Flash technology, including Flash memory chips, Flash embedded in logic, binary cell Flash, and multilevel cell Flash. The book begins with a tutorial of elementary concepts to orient readers who are less familiar with the subject. Next, it covers all aspects and variations of Flash technology at a mature engineering level: basic device structures, principles of operation, related process technologies, circuit design, overall design tradeoffs, device testing, reliability, and applications.

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Customer Reviews

The authoritative reference guide for nonvolatile memory users Presented here is an all-inclusive treatment of Flash technology, includingFlash memory chips, Flash embedded in logic, binary cell Flash, and multilevel cell Flash. Comprised of thirteen succinct chapters authored by pioneers in the field, this book begins with a brief tutorial of elementary concepts to orient readers who are less familiar with the subject. Next, it builds upon this foundation to cover all aspects and variations of Flash technology at a mature engineering level: basic device structures, principles of operation, related process technologies, circuit design, overall design tradeoffs, device testing, reliability, and applications. Nonvolatile Memory Technologies with Emphasis on Flash seamlessly gathers together information on the complex group of technologies that make up nonvolatile memory into one well-organized book. While providing a detailed view of state-of-the-art mainline technologies

that are currently being produced in high volume, it also explores less-exposed and alternate technologies that may emerge in the future. Written as a general reference, Nonvolatile Memory Technologies with Emphasis on Flash serves as both an ideal supplemental text for undergraduate and graduate courses on nonvolatile memory and as an invaluable resource for engineers, technical managers, and other sophisticated practitioners.

Joe E. Brewer, MS, spent most of his career with Westinghouse Electric (now Northrop Grumman Corporation), where he retired in 1998. In 2000, he joined the faculty of the Electrical and Computer Engineering Department of the University of Florida. He was an early contributor to the IEEE Standards for MNOS Arrays and Floating Gate Arrays. He is a Fellow of the IEEE, has authored more than 100 papers, and holds seven U.S. patents. Manzur Gill, PhD, is Chief Advancement Officer and Professor of Physics at Forman Christian College, Lahore, in Pakistan. Dr. Gill has more than twenty-five years of experience in high-tech industry and nonvolatile memory development, has authored over thirty technical publications in international journals, and holds over seventy-five patents.

this book gives a very nice overview of the important circuits and algorithm for flash design. It does not go into a lot of detail, but describes enough to make you understand. If you are a newbie to flash, then I would say go for it. It covers technology, circuit, algorithm and logic aspects of flash design. So if you are looking for a career in any of these, I would recommend this book. You will learn a lot for sure.

Very good book. Comprehensive and approachable for a beginner in the area of NVM with emphasis on Flash. Well organized. Highly recommended

Really good book for nonvolatile memories

This is the only recent one to discuss flash memory with its history, principle, and ckt application. Ab excellent intro book for a general understanding.

This book will give you an excellent overview on nonvolatile memories, of course, especially about floating-gate Flash.As you can easily expect, each chapter has been written by famous researchers in academies and industries because this book is one of the IEEE press series.I was able to read

through this book so easily because it doesn't deal with headaching theories and equations.You won't be able to get an introductory and in-depth knowledge about some topics in this book.But authors provide a lot of references which help your further study.Good book to overlook what's going on in the field of Flash and new emerging memory.

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