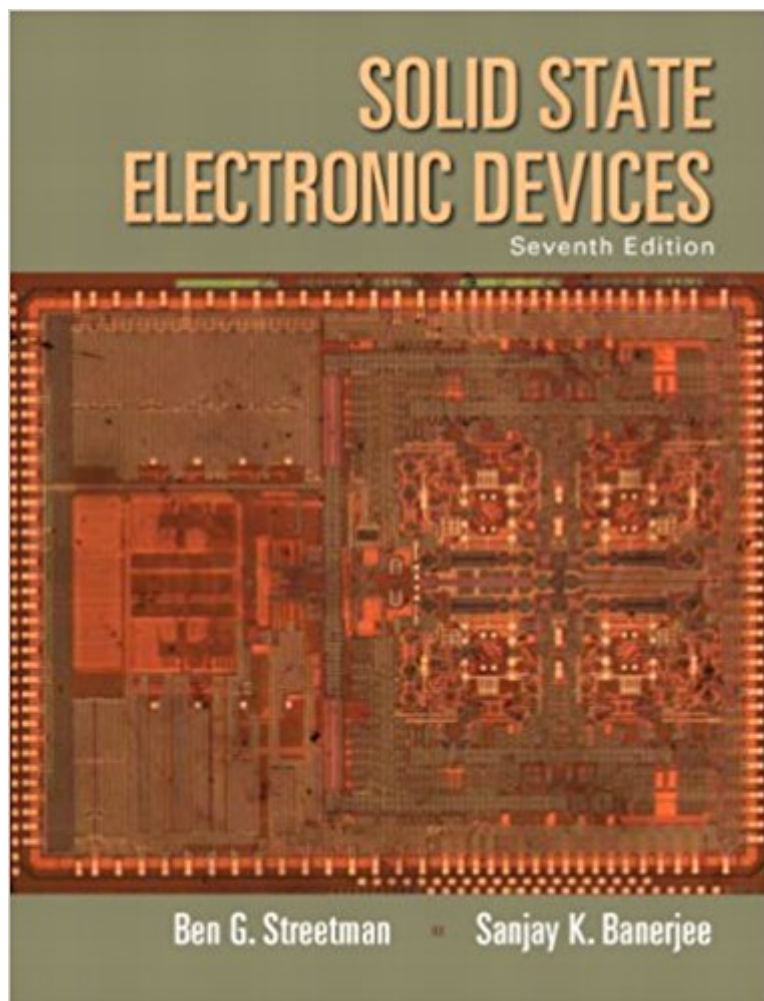


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# Solid State Electronic Devices (7th Edition)



## Synopsis

Solid State Electronic Devices is intended for undergraduate electrical engineering students or for practicing engineers and scientists interested in updating their understanding of modern electronics.

One of the most widely used introductory books on semiconductor materials, physics, devices and technology, Solid State Electronic Devices aims to: 1) develop basic semiconductor physics concepts, so students can better understand current and future devices; and 2) provide a sound understanding of current semiconductor devices and technology, so that their applications to electronic and optoelectronic circuits and systems can be appreciated. Students are brought to a level of understanding that will enable them to read much of the current literature on new devices and applications.

**Teaching and Learning Experience** This program will provide a better teaching and learning experience for you and your students. It will help:

- Provide a Sound Understanding of Current Semiconductor Devices: With this background, students will be able to see how their applications to electronic and optoelectronic circuits and systems are meaningful.
- Incorporate the Basics of Semiconductor Materials and Conduction Processes in Solids: Most of the commonly used semiconductor terms and concepts are introduced and related to a broad range of devices.
- Develop Basic Semiconductor Physics Concepts: With this background, students will be better able to understand current and future devices.

## Book Information

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## Customer Reviews

Ben G. Streetman is Dean Emeritus of the College of Engineering at The University of Texas at Austin. He is an Emeritus Professor of Electrical and Computer Engineering, where he held the

Dula D. Cockrell Centennial Chair. He was the founding Director of the Microelectronics Research Center (1984–1996). His teaching and research interests involve semiconductor materials and devices. After receiving a Ph.D. from The University of Texas at Austin (1966) he was on the faculty (1966–1982) of the University of Illinois at Urbana-Champaign. He returned to The University of Texas at Austin in 1982. His honors include the Education Medal of the Institute of Electrical and Electronics Engineers (IEEE), the Frederick Emmons Terman Medal of the American Society for Engineering Education (ASEE), and the Heinrich Welker Medal from the International Conference on Compound Semiconductors. He is a member of the National Academy of Engineering and the American Academy of Arts and Sciences. He is a Fellow of the IEEE and the Electrochemical Society. He has been honored as a Distinguished Alumnus of The University of Texas at Austin and as a Distinguished Graduate of the UT College of Engineering. He has received the General Dynamics Award for Excellence in Engineering Teaching, and was honored by the Parents' Association as a Teaching Fellow for outstanding teaching of undergraduates. He has served on numerous panels and committees in industry and government, and several corporate boards. He has published more than 290 articles in the technical literature. Thirty five students of Electrical and Computer Engineering have received their Ph.D. under his supervision.

Sanjay Kumar Banerjee is the Cockrell Chair Professor of Electrical and Computer Engineering, and Director of the Microelectronics Research Center at The University of Texas at Austin. He has more than 900 archival refereed publications and conference papers, 30 U.S. patents, and has supervised 50 Ph.D. students. His honors include the NSF Presidential Young Investigator Award (1988), ECS Callinan Award (2003) and IEEE Grove Award (2014). He is a Fellow of IEEE, APS and AAAS.

This book may actually be very informative, but all I really did was homework out of it. I tried following along in the book itself, but it is utterly dense and does absolutely NO hand-holding whatsoever. If you aren't in a very, very introductory course to this information, this will go way over your head, with ease. Also, the book just looks and feels old and outdated and made me wish for something more modern and interactive and easy to understand the whole time.

Delivered exactly as described. Definitely helped me with my coursework and would buy again if I needed to.

The book was excellent and as expected

CHEAP :)

good book

ExcellentExcellentExcellentExcellentExcellent

The binding was already falling off when I got it. I returned it and the replacement binding broke in the middle of the book, making it always flop open to the same page when set down, making studying difficult. If there's a digital copy available, go for that. Worst binding I've ever seen. Oh, yeah, the content is presented in the most incoherent way possible. Difficult to read. But hey, maybe I could have focused better if it would STAY OPEN TO THE PAGE I WAS READING!!! So glad I'm graduating so I don't get abused by these slime-ball textbook companies anymore. We should be having hearings on Capitol Hill on these shysters.

This was a purchase for a class, less expensive than the bookstore price and arrived very quickly. was a great solution for what could have been a more expensive book.

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