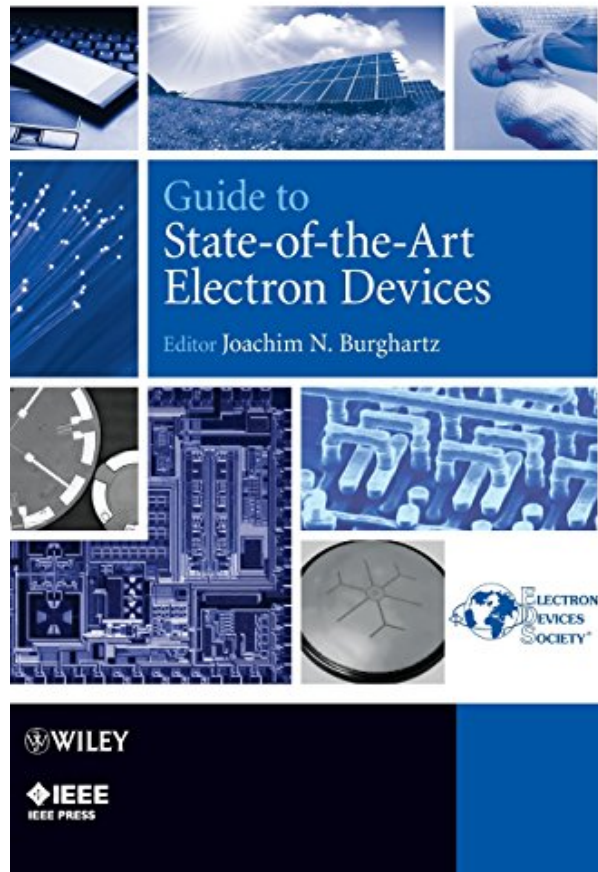
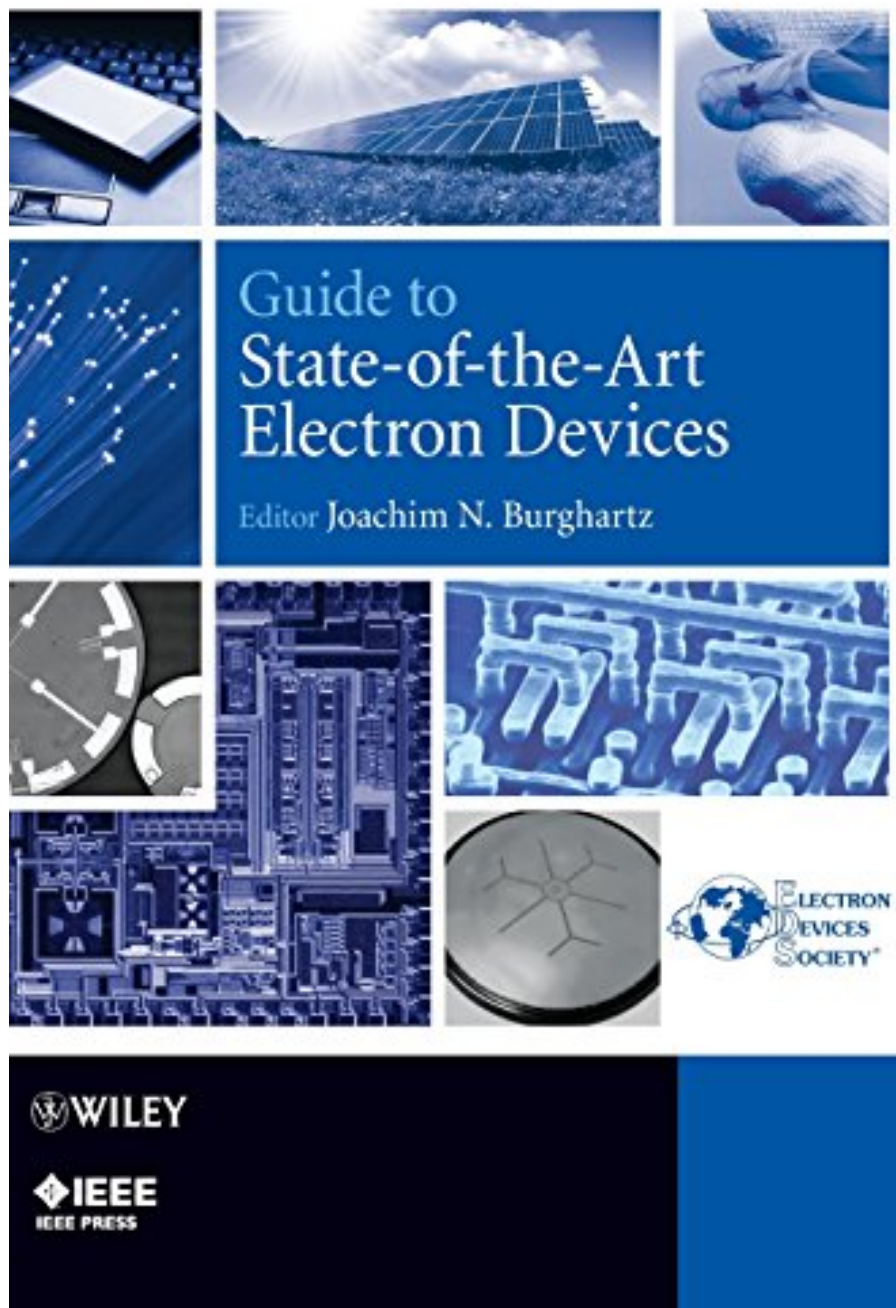


GUIDE TO STATE-OF-THE-ART ELECTRON DEVICES BY JOACHIM N. BURGHARTZ



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Review

“A ‘Wikipedia’ for modern electron devices, this concise reference answers the ‘what’, ‘why’, and ‘how’ of devices which enable our everyday information, communication, entertainment and computing systems. Each chapter tells a story of a device or a class of devices, written in an easy-to-read style that entices the reader to continue.”

—Tak H. Ning, Fellow, IBM Thomas J. Watson Research Center, Yorktown Heights, New York

"As a person with over 60 years of experience in the field, I am delighted to recommend “Guide to State-of-the-Art Electron Devices” as a valuable resource for researchers and engineers engaged in work on semiconductor devices. I have personally known or followed the work of many of these authors, and feel that the editor has done an outstanding job in engaging top experts in the various topical areas covered in this work.”

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From the Back Cover

Guide to State-of-the-Art Electron Devices is written by 70 world-class specialists who share their expert views on a particular group of electron devices or device aspects. The book’s release coincides with the 60th anniversary of the former Institute of Radio Engineers (IRE) electron devices committee and the 35th anniversary of IEEE Electron Devices Society (EDS). Seminal achievements in the field of electron devices are displayed in a history timeline that runs throughout the book.

Key features

- Organized in a matrix of electron device types and cross-disciplines from photovoltaics and semiconductor manufacturing to VLSI technology and circuits
- A timely desk reference with fully-integrated colour and a unique lay-out with sidebars to highlight the key

terms

- Contributed by IEEE Electron Devices Society (EDS) members from industry, academic and government institutions
- Discusses the historical developments and speculates on future trends to give a more rounded picture of the topics covered

An essential reference for both present and prospective EDS members, this guide surveys the commonalities and interrelationships of all electron device types covered by the EDS. It will also appeal to affiliate IEEE members wishing to develop their expertise in electron devices.

About the Author

Edited by

Prof. Dr. Joachim N. Burghartz

Institute for Microelectronics Stuttgart, Germany

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GUIDE TO STATE-OF-THE-ART ELECTRON DEVICES BY JOACHIM N. BURGHARTZ PDF

Winner, 2013 PROSE Award, Engineering and Technology

Concise, high quality and comparative overview of state-of-the-art electron device development, manufacturing technologies and applications

Guide to State-of-the-Art Electron Devices marks the 60th anniversary of the IRE electron devices committee and the 35th anniversary of the IEEE Electron Devices Society, as such it defines the state-of-the-art of electron devices, as well as future directions across the entire field.

- Spans full range of electron device types such as photovoltaic devices, semiconductor manufacturing and VLSI technology and circuits, covered by IEEE Electron and Devices Society
- Contributed by internationally respected members of the electron devices community
- A timely desk reference with fully-integrated colour and a unique lay-out with sidebars to highlight the key terms
- Discusses the historical developments and speculates on future trends to give a more rounded picture of the topics covered

A valuable resource R&D managers; engineers in the semiconductor industry; applied scientists; circuit designers; Masters students in power electronics; and members of the IEEE Electron Device Society.

- Sales Rank: #1608834 in Books
- Brand: Brand: Wiley-IEEE Press
- Published on: 2013-04-22
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .80" w x 7.60" l, 1.95 pounds
- Binding: Hardcover
- 322 pages

Features

- Used Book in Good Condition

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Edited by

Prof. Dr. Joachim N. Burghartz
Institute for Microelectronics Stuttgart, Germany

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Great for state-of-the-art devices

By Prof.A

This book is written by some of the top notch researchers in the semiconductor device area. Every instructor teaching Device electronics should have one. It includes the latest information on current and prospects for the future. It has Zillions of references to the literature. And the price is right. But I am told that it can be purchased at a discount by IEEE Electron Device Society members through the IEEE.

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