Tiny Technology... Huge Potential

ADVANCED MICRO & NANOSYSTEMS

New Book Series

www.AMN.wiley-vch.de

Editors
HENRY BALTES,
ETH Zürich,
Zürich, Switzerland
OLIVER BRAND,
Georgia Institute of Technology,
Atlanta, USA
GARY K. FEDDER,
Carnegie Mellon University,
Pittsburgh, USA
CHRISTOFER HIEROLD,
ETH Zürich, Switzerland
JAN G. KORVINK,
IMTEK Freiburg, Germany
OSAMU TABATA,
Kyoto University, Kyoto, Japan

Save 10% with Your Continuation Order
Microstructures, electronics, nanotechnology – vast fields of research are growing together as the size gap narrows. Current research, engineering successes and newly commercialized products hint at the immense innovative potential and future applications that may be opened up once mankind controls shape and function from the atomic level right up to the visible world without any gaps.

This new series, Advanced Micro- and Nanosystems, provides hot reviews from top authors on technologies, devices and advanced systems from these two domains.

Advanced Micro- and Nanosystems is the successor to Sensors Update, whose three experienced editors have invited a further three highly renowned experts from the USA, Europe and Japan to join the new editorial team so as to offer even broader coverage of the science and technology of the micro and nano worlds.

Published twice yearly, the volumes can be purchased either on a continuation order basis or individually. An attractive series price is available for continuation orders.

For more information on the AMN Series and the editors please visit www.AMN.wiley-vch.de
**Related Titles**

**Nano-Architected and Nanostructured Materials**  
Fabrication, Control and Properties  
Edited by YANNICK CHAMPION and HANS-JÖRG FECHT  
The book places special emphasis on crucial technical aspects of the fabrication, the control and the characterisation of complex nano-architectures.

**Handbook of Machine Olfaction**  
Electronic Nose Technology  
Edited by TIM C. PEARCE, SUSAN S. SCHIEFFMANN, H. TROY NAGLE and JULIAN W. GARDNER  
"...This book is a valuable information source...This reviewer was captivated that he ended up with enough notes for a book review of several thousand words!"

**Semiconductors for Micro- and Nanotechnology**  
An Introduction for Engineers  
JAN G. KORVINK and ANDREAS GREINER  
This textbook emphasizes a systems-oriented view of semiconductor physics for applications in microsystem technology. It provides a hands-on approach to semiconductor physics tailor-made for engineering students.

**Nanofabrication Towards Biomedical Applications**  
Materials and Methods  
Edited by CHALLA KUMAR, JOSEF HORMES, and CAROLA LEUSCHNER  
With its focus on the materials, synthetic methods, tools and techniques being developed in the nanoregime towards the life sciences, this book provides readers from materials science, engineering, chemistry, biology and medicine with detailed accounts of the design and synthesis of nanomaterials and the tools and techniques involved in their production.

**Nanotechnology**  
An Introduction to Nanostructuring Techniques  
MICHAEL KÖHLER and WOLFGANG FRITZSCHE  
Written for both scientists and engineers, this book offers fascinating insight into nanotechnology from the fundamentals of microtechnology and chemistry to the fabrication and of nanostructures and finally presenting characterization.

**The Nano Micro Interface**  
Bringing the Nano and Micro Worlds Together  
Edited by HANS-JÖRG FECHT and MATTHIAS WERNER  
This book covers a wide range of topics – from technologies to materials and devices, and from research to administrative know-how.

**Introduction to Nanotechnology**  
CHARLES P. POOLE and FRANK J. OWENS  
"...wonderful introductory overview...an invaluable interdisciplinary look at the science of miniaturization and mesoscopic materials...an important resource for technical administrators and managers, as well as students and individuals..."  
- Polymer News

All prices are approx prices and subject to change.
Related Journals...

...bring you the latest and most exciting progress in materials science

Small

The NEW inter-disciplinary journal for nano and micro science and technology

ISSN: 1613-6810 (print), 1613-6829 (online)
2005, Volume 1, 12 Issues
www.small-journal.com

Advanced Materials

ISI Impact factor 7.305

ISSN: 0935-9648 (print), 1521-4095 (online)
2005, Volume 17, 24 Issues
www.advmat.de

Advanced Functional Materials

ISI Impact Factor 4.798

ISSN: 1616-301X (print), 1616-3028 (online)
2005, Volume 15, 24 Issues
www.afm-journal.de

Related Titles

Sensors in Medicine and Health Care
Sensors Applications Vol. 3
Edited by P. AKE OEBERG, TATSUO TOGAWA, and FRANCIS A. SPELMAN
A review of applications for point-of-care diagnostics, their integration into portable systems and the comfortable, easy-to-use sensors that allow patients to monitor themselves at home. The book covers such advanced topics as minimal invasive surgery, implantable sensors and prostheses, as well as biocompatible sensing.
3527-29556-9 2004 444pp with 219 figs, 6 in color, and 7 tabs  Hbk € 229.- /£ 180.- /US$ 340.-
Series price € 199.- /£ 150.- /US$ 280.-

Sensors for Automotive Technology
Sensors Applications Vol. 4
Edited by JIRI MAREK, HANS-PETER TRAH, YASUTOSHI SUZUKI and IWAO YOKOMORI
Leading international experts give a detailed picture of existing as well as future sensor applications for vehicle safety, fuel consumption, air conditioning, emergency control, traffic control systems, and electronic guidance using radar and video.
3527-29553-4 2003 584pp with 450 figs and 50 tabs  Hbk € 259.- /£ 180.- /US$ 340.-
Series price € 229.- /£ 180.- /US$ 280.-

Sensors in Household Appliances
Sensors Applications Vol. 5
Edited by GUIDO TSCHULENA and ANDREAS LAHRMANN
Product safety, efficiency and consumer comfort, as well as decreasing power or water consumption and wastewater play important roles for the customer appeal of advanced “intelligent” appliances.
3527-30362-6 2003 310pp with 153 figs and 32 tabs  Hbk € 189.- /£ 135.- /US$ 235.-
Series price € 159.- /£ 120.- /US$ 280.-

Sensors Update
Edited by HENRY BALTES, GARY K. FEDDER, and JAN G. KORVINK
Volume 12
3527-30560-1 2003 262pp with 162 figs and 31 tabs  Hbk € 229.- /£ 160.- /US$ 300.-
Series price € 209.- /£ 120.- /US$ 280.-

Volume 13
3527-30745-1  February 2004 324pp with 203 figs and 19 tabs  Hbk € 229.- /£ 160.- /US$ 300.-
Series price € 209.- /£ 120.- /US$ 280.-
Order Form

All customers from Europe (excluding Germany, Austria, Switzerland)

**DELIVERY**
Postage rates (Amounts shown for the total order)
- **UK** £ 5.00
- **Europe**
  - Surface mail £ 4.50
  - Air mail £ 10.50
- **Outside Europe**
  - Surface mail £ 6.60
  - Air mail £ 11.25
Delivery will be arranged by John Wiley & Sons Ltd. or by your carrier.
Please quote your postal delivery method and include your
postal delivery address.

INTERNET: www.wileyEurope.com

**PAYMENT METHODS**
- Cheque enclosed, payable to John Wiley & Sons Ltd
- Credit/charge card:
  - Switch
  - Mastercard
  - Visa
  - American Express
  - Diners Club

Card Number ___________
Start Date ___________
Expiry Date ___________
Switch issue number ___________
Card Security Code ___________
Cardholder’s Signature ___________
Cardholder’s Name ___________
Cardholder’s registered Address ___________

**CUSTOMERS FROM THE REST OF THE WORLD**

**PHONE** your credit card order:
DIAL FREE (UK only) 0800 224 307 or
(for overseas orders) +44 (0) 1243 843-294.
Please quote the Campaign Ref. number.

**FAX** your completed order form to:
+44 (0) 1243 843-296

**POST** your completed order form to:
John Wiley & Sons Ltd., 1 Oldlands Way,
Bognor Regis, West Sussex, PO22 9SA England

**EMAIL** cs-books@wiley.co.uk – Please quote the Campaign Ref. number and include your
postal delivery address.

**INTERNET:** www.wileyEurope.com

**TERMS OF PAYMENT:**
- Please send me an invoice
- Please charge my credit card:
  - Mastercard
  - Visa
  - American Express

**CUSTOMERS FROM GERMANY, AUSTRIA AND SWITZERLAND**

**PHONE** +49 (0) 6201 606-400
**FAX** +49 (0) 6201 606-184
**POST** your completed order form to:
Wiley-VCH, Customer Service Department,
P.O. Box 10 11 61, 69451 Weinheim, Germany
**EMAIL** service@wiley-vch.de
**INTERNET:** www.wiley-vch.de

**MONEY BACK GUARANTEE**
If you are not completely satisfied with your order, we will refund your payment without question,
under the following conditions:
- Sub Total
- Postage
- TOTAL
- EU customers please include your VAT number

**METHOD OF PAYMENT:**
- Payment enclosed. Total amount enclosed: ___________
- Make checks or money orders payable to John Wiley & Sons, Inc.

**CAMPAIGN REF.: ????**

I would like to order:
(Please insert ISBN and title)

**BOOKS**

- **Advanced Micro & Nanosystems (Book Series)**
  - Save 10% with your continuation order
  - Each volume will be invoiced and despatched
  - ISBN 3527-30746-X

- **Enabling Technology for MEMS and Nanodevices**
  - ISBN 3527-31080-0

- **CMOS-MEMS**
  - ISBN 3527-31081-8

- **Microengineering of Metals and Ceramics**
  - ISBN 3527-31082-6

- **Nanosystems (Book Series)**

- **Advanced Functional Materials**
  - ISBN 3527-31083-4

**JOURNALS**

- **Yes, please send me my free sample copy of**
  - Private
  - Business
  - Mr.
  - Mrs.
  - Title & Name
  - Email
  - Job Title
  - Company/University
  - Address
  - Town/City
  - Country/State
  - Post/Zip Code
  - Daytime Tel.
  - Fax
  - Date/Signature

**WILEY-VCH**