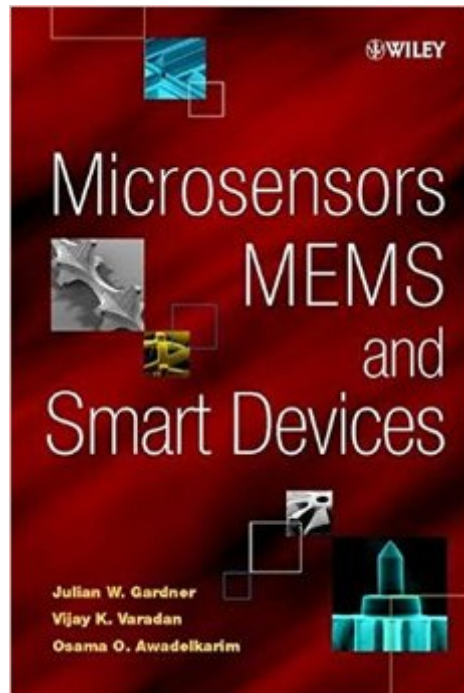


The book was found

Microsensors, MEMS And Smart Devices



Synopsis

Microsensors and MEMS (micro-electro-mechanical systems) are revolutionising the semiconductor industry. A microsystem or the so-called "system-on-a-chip" combines microelectronic circuitry with microsensors and microactuators. This emergent field has seen the development of applications ranging from the electronic nose and intelligent ear to micro-tweezers and the modern ink-jet nozzle. Providing a complete overview of microsensor technologies, this unique reference addresses vital integration issues for the successful application of microsensors, MEMS and smart devices. Features include: * Review of traditional and emerging fabrication processes including bulk and silicon micromachining, microstereolithography and polymer processing methods. * Focus on the use of IDT (interdigital transducer) microsensors in the development of low energy budget, wireless MEMS or micromachines. * Coverage of the latest applications in smart devices including the electronic nose, tongue and finger, along with smart sensors and structures such as smart skin. * An overview of the development of intelligent sensing devices through the use of sensor arrays, parametric compensation of sensor signals and ASIC technology. * Comprehensive appendices outlining vital MEMS material properties, relevant web sites and a guide to key institutions active in the field. Microsensors, MEMS and Smart Devices presents readers with the means to understand and evaluate microsystems. Advanced students and researchers in microelectronics, engineers and developers of microsensor systems will find this comprehensive treatment essential reading. Detailed coverage of material properties makes this an important reference work for mechanical engineers, physicists and material scientists working in the field.

Book Information

Hardcover: 528 pages

Publisher: Wiley; 1 edition (December 15, 2001)

Language: English

ISBN-10: 047186109X

ISBN-13: 978-0471861096

Product Dimensions: 6.8 x 1.4 x 9.7 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars Â See all reviews Â (2 customer reviews)

Best Sellers Rank: #1,521,606 in Books (See Top 100 in Books) #272 in Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors #411 in Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics >

Customer Reviews

I am extremely disappointed. This book is poorly written and full of mistakes. While this book is not a complete waste of time and money, it is very close. I can only hope that the huge number of mistakes and typographical errors can be fixed in future editions.

There are a fair number of MEMS books available now, and I've commented on a few of them. This one is well focused though on sensors, broadly interpreted. Use 's search inside this book to thumb through it and find a couple of sections of particular interest. There's a lot of information in here, and the references are especially good for taking you to additional and, if needed, primary literature.

[Download to continue reading...](#)

Microsensors, MEMS and Smart Devices Practical MEMS: Design of microsystems, accelerometers, gyroscopes, RF MEMS, optical MEMS, and microfluidic systems RF MEMS Switches and Integrated Switching Circuits (MEMS Reference Shelf) BioNanoFluidic MEMS (MEMS Reference Shelf) Apple's Homekit Smart Home Automation System Handbook: Discover How to Build Your Own Smart Home Using Apple's New HomeKit System (Smart Home Automation Essential Guides Book 7) Modeling MEMS and NEMS Electromechanics and MEMS Inertial MEMS: Principles and Practice US Army Technical Manual, ARMY DATA SHEETS FOR CARTRIDGES, CARTRIDGE ACTUATED DEVICES AND PROPELLANT ACTUATED DEVICES, FSC 1377, TM 43-0001-39, 1991 Foundations of MEMS (International Edition) Advanced MEMS Packaging Advanced Mos Devices (Modular Series on Solid State Devices, Vol 7) ISO 14971:2007, Medical devices - Application of risk management to medical devices Echo: The Simple User Guide How to Program Echo Fast (Echo 2016,user manual,web services,by ,Free books,Free Movie,Alexa Kit) (Prime, smart devices, internet Book 5) Echo: Simple User Guide to Program Echo (Echo 2016,user manual,web services,by ,Free books,Free Movie,Alexa Kit) (Prime, smart devices, internet Book 4) Echo: 2016 - The Ultimate Guide for Advanced Users to Master Echo (Echo, user manual,web services,by , Free books, Free Movie, ... smart devices, internet, guide Book 7) Echo: The Best User Guide How To Program Echo (Echo 2016,user manual,web services,by ,Free books,Free Movie,Alexa Kit) (Prime, smart devices, internet Book 4) Echo: The Ultimate Guide to Learn Echo In No Time (Echo, Alexa Skills Kit, smart devices, digital services, digital media) (Prime, internet device, guide) (Volume 6) Echo: 2016 - The Ultimate Guide for Advanced Users to

Master Echo (Echo, user manual,web services,by , Free books, Free ... smart devices, internet, guide) (Volume 7) Echo: 2016 - The Ultimate Guide to Learn Echo In No Time (Echo, Alexa Skills Kit, smart devices, digital services, digital media) (Prime, internet device, guide)

[Dmca](#)