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[Extended Defects in Germanium](#) - Cor Claeys 2008-12-29

The aim is to give an overview of the physics of extended defects in Germanium, i.e. dislocations (line defects), grain boundaries, stacking faults, twins and {311} defects (two-dimensional defects) and precipitates, bubbles, etc. The first part covers fundamentals, describing the crystallographic structure and other physical and electrical properties, mainly of dislocations. Since dislocations are essential for the plastic deformation of Germanium, methods for analysis and imaging of dislocations and to evaluate their structure are described. Attention is given to the electrical and optical properties, which are important for devices made in dislocated Ge. The second part treats the creation of extended defects during wafer and device processing. Issues are addressed such as defect formation during ion implantation, necessary to create junctions, which are an essential part in every device type. Extended defects are also created during the deposition of thin or thick epitaxial layers on other substrates, which are important for optoelectronic and photovoltaic applications. In brief, the book is intended to provide a fundamental understanding of the extended-defect formation during Ge materials and device processing, providing ways to distinguish harmful from less detrimental defects and should point out ways for defect engineering and control.

**Hybrid Systems-in-Foil** - Mourad Elsobky 2021-10-14

Hybrid Systems-in-Foil (HySiF) is a concept that extends the potential of conventional More-than-More Systems-in/on-Package (SiPs and SoPs) to the flexible electronics world. In HySiF, an economical implementation of flexible electronic systems is possible by integrating a minimum number of embedded silicon chips and a maximum number of on-foil components. Here, the complementary characteristics of CMOS SoCs and larger area organic and printed electronics are combined in a HySiF-compatible polymeric substrate. Within the HySiF scope, the fabrication process steps and the integration design rules with all the accompanying boundary conditions concerning material compatibility, surface properties, and thermal budget, are defined. This Element serves as an introduction to the HySiF concept. A summary of recent ultra-thin chip fabrication and flexible packaging techniques is provided. Several bendable electronic components are presented demonstrating the benefits of HySiF. Finally, prototypes of flexible wireless sensor systems that adopt the HySiF concept are demonstrated.

**100-days** - Luc Feitknecht 2013-12-06

A collection of periodic web blog entries for a crowd-sourcing project in late 2013. The crowd did not succeed supporting a brand new eBook on solarPV, but instead, you can read now this collection of statements, articles and lessons on solar electricity here.

*Building Secure Firmware* - Jiewen Yao 2020-12-14

Use this book to build secure firmware. As operating systems and hypervisors have become successively more hardened, malware has moved further down the stack and into firmware. Firmware represents the boundary between hardware and software, and given its persistence, mutability, and opaqueness to today's antivirus scanning technology, it represents an interesting target for attackers. As platforms are universally network-connected and can contain multiple devices with firmware, and a global supply chain feeds into platform firmware, assurance is critical for consumers, IT enterprises, and governments. This importance is highlighted by emergent requirements such as NIST SP800-193 for firmware resilience and NIST SP800-155 for firmware measurement. This book covers the secure implementation of various aspects of firmware, including standards-based firmware—such as support of the Trusted Computing Group (TCG),

Desktop Management Task Force (DMTF), and Unified Extensible Firmware Interface (UEFI) specifications—and also provides code samples and use cases. Beyond the standards, alternate firmware implementations such as ARM Trusted Firmware and other device firmware implementations (such as platform roots of trust), are covered. What You Will learn Get an overview of proactive security development for firmware, including firmware threat modeling Understand the details of architecture, including protection, detection, recovery, integrity measurement, and access control Be familiar with best practices for secure firmware development, including trusted execution environments, cryptography, and language-based defenses Know the techniques used for security validation and maintenance Who This Book Is For Given the complexity of modern platform boot requirements and the threat landscape, this book is relevant for readers spanning from IT decision makers to developers building firmware

**Technology Roadmapping** - Tugrul Unsal Daim 2018

[Visual Object-oriented Programming](#) - Margaret Burnett 1995

This book is intended as a serious introduction and reference for cutting-edge developers in the areas of visual and object-oriented programming. The first book on this topic, this guide focuses on the elements and strategies to help those who design visual object-oriented systems avoid some of the known pitfalls.

*Sissy Dreams: From Boyfriend to Girlfriend* - Paul Zante

Receiving a text from Sasha, my girlfriend, at work was always risky. Especially when she wanted to know if her girlfriend was horny. A short and sweet (and filthy) story.

*GSE Algebra I* - Abc 2021-01-27

**King Peggy** - Peggien Bartels 2013-02-12

The charming real-life fairy tale of an American secretary who discovers she has been chosen king of an impoverished fishing village on the west coast of Africa. King Peggy chronicles the astonishing journey of American secretary, Peggien Bartels, who suddenly finds herself king to a town of 7,000 people on Ghana's central coast, half a world away. Upon arriving for her crowning ceremony in beautiful Otuum, she discovers the dire reality: there's no running water, no doctor, no high school, and many of the village elders are stealing the town's funds. To make matters worse, her uncle (the late king) sits in a morgue awaiting a proper funeral in the royal palace, which is in ruins. Peggy's first two years as king of Otuum unfold in a way that is stranger than fiction. In the end, a deeply traditional African town is uplifted by the ambitions of its decidedly modern female king, and Peggy is herself transformed, from an ordinary secretary to the heart and hope of her community.

[Digital Transformation: Evaluating Emerging Technologies](#) - Tugrul U Daim 2020-07-28

Selecting the right technology is one of the most critical decisions in technology driven enterprises, and no selection is complete without a thorough and informed evaluation. This book explores the digital transformation movement from three perspectives: the technological, the personal, and the organizational. The technical perspective analyses and evaluates new and up and coming technologies such as IoT and Cloud Technology. The personal perspective focuses on the consumer's attitude and experience in the adoption of technologies such as smart homes, smart watches, drones and wireless devices. And the organizational perspective focuses on evaluating how technology-driven an organization and their core

activities or products are. This book is an ideal reference for managers who are responsible for digital transformation in their organizations and also serves a good starting point for researchers interested in understanding the trend. The book contains case studies that may be used by educators in MBA and Engineering and Technology Management MS programs covering digital transformation related courses.

**Pavement Maintenance Management** - 1983

**Modeling in Geomechanics** - Musharraf Zaman 2000-08-22

Modeling in Geomechanics Edited by Musharraf Zaman The University of Oklahoma, USA Giancarlo Gioda Politecnico di Milano, Italy John Booker University of Sydney, Australia Geomechanics is an interdisciplinary field involving the study of natural and man-made systems with emphasis on the mechanics of various interacting phenomena. It comprises numerous aspects of engineering and scientific disciplines, which share common bases in mathematics, mechanics and physics. In recent years, with the extraordinary growth of computing power and resources, progress in the generation of new theories and techniques for the analysis of geomechanics problems has far surpassed their actual use by practitioners. This has led to a gap between our ability to deal with complex, inter-disciplinary problems in geomechanics and the actual impact of these advances on engineering practice. This book contains contributions from an international group of accomplished researchers and practitioners from various branches of soil and rock engineering, and presents the latest theoretical developments and practical applications of modeling in geomechanics. Chapters are grouped into four main sections: \* Computational procedures \* Constitutive modeling and testing \* Modeling and simulation \* Applications Efforts have been made to include recent developments and provide suggestions and examples as to how these can be applied in modeling actual engineering problems. Researchers, practitioners and students in geomechanics, mechanics of solids, soil and rock engineering will find this book an invaluable reference.

*FinFET Devices for VLSI Circuits and Systems* - Samar K. Saha 2020-07-15

To surmount the continuous scaling challenges of MOSFET devices, FinFETs have emerged as the real alternative for use as the next generation device for IC fabrication technology. The objective of this book is to provide the basic theory and operating principles of FinFET devices and technology, an overview of FinFET device architecture and manufacturing processes, and detailed formulation of FinFET electrostatic and dynamic device characteristics for IC design and manufacturing. Thus, this book caters to practicing engineers transitioning to FinFET technology and prepares the next generation of device engineers and academic experts on mainstream device technology at the nanometer-nodes.

Germanium-Based Technologies - Cor Claeys 2011-07-28

Germanium is a semiconductor material that formed the basis for the development of transistor technology. Although the breakthrough of planar technology and integrated circuits put silicon in the foreground, in recent years there has been a renewed interest in germanium, which has been triggered by its strong potential for deep submicron (sub 45 nm) technologies. Germanium-Based technologies: From Materials to Devices is the first book to provide a broad, in-depth coverage of the field, including recent advances in Ge-technology and the fundamentals in material science, device physics and semiconductor processing. The contributing authors are international experts with a world-wide recognition and involved in the leading research in the field. The book also covers applications and the use of Ge for optoelectronics, detectors and solar cells. An ideal reference work for students and scientists working in the field of physics of semiconductor devices and materials, as well as for engineers in research centres and industry. Both the newcomer and the expert should benefit from this unique book. State-of-the-art information available for the first time as an all-in-source Extensive reference list making it an indispensable reference book Broad coverage from fundamental aspects up to industrial applications

**Nano-Energetic Materials** - Shantanu Bhattacharya 2018-11-09

This book presents the latest research on the area of nano-energetic materials, their synthesis, fabrication, patterning, application and integration with various MEMS systems and platforms. Keeping in mind the applications for this field in aerospace and defense sectors, the articles in this volume contain contributions by leading researchers in the field, who discuss the current challenges and future perspectives. This volume will be of use to researchers working on various applications of high-energy research.

Amnesty International Report 2008 - Amnesty International 2008

This annual report documents human rights abuses by governments and armed opposition groups in 150 countries across the world. It provides an invaluable reference guide to international human rights developments.

**Resistive Switching** - Daniele Ielmini 2015-12-23

With its comprehensive coverage, this reference introduces readers to the wide topic of resistance switching, providing the knowledge, tools, and methods needed to understand, characterize and apply resistive switching memories. Starting with those materials that display resistive switching behavior, the book explains the basics of resistive switching as well as switching mechanisms and models. An in-depth discussion of memory reliability is followed by chapters on memory cell structures and architectures, while a section on logic gates rounds off the text. An invaluable self-contained book for materials scientists, electrical engineers and physicists dealing with memory research and development.

**Sensors for Automotive and Aerospace Applications** - Shantanu Bhattacharya 2018-11-01

This volume covers the various sensors related to automotive and aerospace sectors, discussing their properties as well as how they are realized, calibrated and deployed. Written by experts in the field, it provides a ready reference to product developers, researchers and students working on sensor design and fabrication, and provides perspective on both current and future research.

Atlas of the Vascular Plants of Texas: Ferns, gymnosperms, monocots - Billie Lee Turner 2003

**Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits** - M. Bushnell 2006-04-11

The modern electronic testing has a forty year history. Test professionals hold some fairly large conferences and numerous workshops, have a journal, and there are over one hundred books on testing. Still, a full course on testing is offered only at a few universities, mostly by professors who have a research interest in this area. Apparently, most professors would not have taken a course on electronic testing when they were students. Other than the computer engineering curriculum being too crowded, the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook. For VLSI the foundation was provided by semiconductor device technology, circuit design, and electronic testing. In a computer engineering curriculum, therefore, it is necessary that foundations should be taught before applications. The field of VLSI has expanded to systems-on-a-chip, which include digital, memory, and mixed-signalsubsystems. To our knowledge this is the first textbook to cover all three types of electronic circuits. We have written this textbook for an undergraduate "foundations" course on electronic testing. Obviously, it is too voluminous for a one-semester course and a teacher will have to select from the topics. We did not restrict such freedom because the selection may depend upon the individual expertise and interests. Besides, there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course. With equal tenacity, we address the needs of three other groups of readers.

**The Unbounded Mind** - Ian I. Mitroff 1995

In this ground-breaking work, two pioneering thinkers in business studies pinpoint the profound changes they believe must occur in the way that business executives think, make decisions and solve problems if America is to remain competitive.

**Midlander; 1** - Anonymous 2021-09-10

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

*Object-Oriented Analysis and Design* - Sarnath Ramnath 2010-12-06

Object-oriented analysis and design (OOAD) has over the years, become a vast field, encompassing such diverse topics as design process and principles, documentation tools, refactoring, and design and architectural patterns. For most students the learning experience is incomplete without implementation. This new textbook provides a comprehensive introduction to OOAD. The salient points of its coverage are: • A sound footing on object-oriented concepts such as classes, objects, interfaces, inheritance, polymorphism, dynamic linking, etc. • A good introduction to the stage of requirements analysis. • Use of UML to document user requirements and design. • An extensive treatment of the design process. • Coverage of implementation issues. • Appropriate use of design and architectural patterns. • Introduction to the art and craft of refactoring. • Pointers to resources that further the reader's knowledge. All the main case-studies used for this book have been implemented by the authors using Java. The text is liberally peppered with snippets of code, which are short and fairly self-explanatory and easy to read. Familiarity with a Java-like syntax and a broad understanding of the structure of Java would be helpful in using the book to its full potential.

*BE RICH AND HAPPY.* - ROBERT T. KIYOSAKI 2019

**Duty and Desire Book Club Edition** - Anju Gattani 2021-01-27

To uphold family honor and tradition, Sheetal Prasad is forced to forsake the man she loves and marry playboy millionaire Rakesh Dhanraj while the citizens of Raigun, India, watch in envy. On her wedding night, however, Sheetal quickly learns that the stranger she married is as cold as the marble floors of the Dhanraj mansion. Forced to smile at family members and cameras and pretend there's nothing wrong with her marriage, Sheetal begins to discover that the family she married into harbors secrets, lies and deceptions powerful enough to tear apart her world. With no one to rely on and no escape, Sheetal must ally with her husband in an attempt to protect her infant son from the tyranny of his family.

*Men in My Situation* - Per Petterson 2022-02

First published in English by Harvill Secker/Penguin Random House UK in 2021.

*Twelve Years a Slave* - Solomon Northup 2021-01-01

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Low Temperature Electronics - Edmundo A. Gutierrez 2001

Low Temperature Electronics: Physics, Devices, Circuits, and Applications summarizes the recent advances in cryoelectronics starting from the fundamentals in physics and semiconductor devices to electronic systems, hybrid superconductor-semiconductor technologies, photonic devices, cryocoolers and thermal management. Furthermore, this book provides an exploration of the currently available theory, research,

and technologies related to cryoelectronics, including treatment of the solid state physical properties of the materials used in these systems. Current applications are found in infrared systems, satellite communications and medical equipment. There are opportunities to expand in newer fields such as wireless and mobile communications, computers, and measurement and scientific equipment. Low temperature operations can offer certain advantages such as higher operational speeds, lower power dissipation, shorter signal transmission times, higher semiconductor and metal thermal conductivities, and improved digital and analog circuit performance. The computer, telecommunication, and cellular phone market is pushing the semiconductor industry towards the development of very aggressive device and integrated circuit fabrication technologies. This is taking these technologies towards the physical miniaturization limit, where quantum effects and fabrication costs are becoming a technological and economical barrier for further development. In view of these limitations, operation of semiconductor devices and circuits at low temperature (cryogenic temperature) is studied in this book. \* It is a book intended for a wide audience: students, scientists, technology development engineers, private companies, universities, etc. \* It contains information which is for the first time available as an all-in-one source; Interdisciplinary material is arranged and made compatible in this book \* It is a must as reference source

The Illustrator 7 Wow! Book - Sharon Steuer 1998

An updated edition includes time-saving techniques and tips for users of Adobe Illustrator 7, exploring the software's basic tools and latest features with full-color examples and samples from leading Illustrator artists and designers. Original. (All Users).

The Sex-Starved Marriage - Michele Weiner Davis 2004-01-08

Bring the spark back into your bedroom and your relationship with gutsy and effective advice from bestselling author Michele Weiner Davis. It is estimated that one of every three married couples struggles with problems associated with mismatched sexual desire. Do you? If you want to stop fighting about sex and revitalize your intimate connection with your spouse, then you need this book. In *The Sex-Starved Marriage*, bestselling author Michele Weiner Davis will help you understand why being complacent or bitter about ho-hum sex might cost you your relationship. Full of moving firsthand accounts from couples who have struggled with the erosion of sexual desire and rebuilt their passionate connection, *The Sex-Starved Marriage* addresses every aspect of the sexual libido problem: If you're the more highly sexed partner, you'll breathe a sigh of relief. At last someone understands your feelings about the void in your marriage. Discover why your pleas for touch have fallen upon deaf ears and why your approach to the lull in your sexual relationship could be a sexual turnoff. Most important, learn new ways to motivate your spouse to take your needs for more physical closeness to heart. If you're the spouse with a lagging libido, you're far from alone. You'll learn about the physiological and psychological factors, including unresolved relationship issues, that may contribute to the chill in your bedroom and what you can do to melt the ice. And if you're a man, you'll be surprised to learn that staggering numbers of men, even men whose sexual machinery works just fine, "get headaches" too! *The Sex-Starved Marriage* will give you and your spouse the inspiration, encouragement, and answers you need.