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This book demonstrates how to use the Synopsys Sentaurus TCAD 2014 version for the design and simulation of 3D CMOS (complementary metal–oxide–semiconductor) semiconductor nanoelectronic devices, while also providing selected source codes (Technology Computer-Aided Design, TCAD). Instead of the built-in examples of Sentaurus TCAD 2014, the practical cases presented here, based on years of teaching and research experience, are used to interpret and analyze simulation results of the physical and electrical properties of designed 3D CMOSFET (metal–oxide–semiconductor field-effect transistor) nanoelectronic devices. The book also addresses in detail the fundamental theory of advanced semiconductor device design for the further simulation and analysis of electric and physical properties of semiconductor devices. The design and simulation technologies for nano-semiconductor devices explored here are more practical in nature and representative of the semiconductor industry, and as such can promote the development of pioneering semiconductor devices, semiconductor device physics, and more practically-oriented approaches to teaching and learning semiconductor engineering. The book can be used for graduate and senior undergraduate students alike, while also offering a reference guide for engineers and experts in the semiconductor industry. Readers are expected to have some preliminary knowledge of the field.

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The Advocate is a lesbian, gay, bisexual, transgender (LGBT) monthly newsmagazine. Established in 1967, it is the oldest continuing LGBT publication in the United States. MacLife is the ultimate magazine about all things Apple. It's authoritative, ahead of the curve and endlessly entertaining. MacLife provides unique content that helps readers use their Macs, iPhones, iPods, and their related hardware and software in every facet of their personal and professional lives.

You want to build a more diverse organization, but how will you shift your hiring practices? Learn the playbook from the world's top talent executives and the global leader in diversity recruiting. *Hiring for Diversity: The Guide to Building an Inclusive and Equitable Organization* brings together the most cutting-edge practices for implementing a diversity hiring strategy that leaves your organization with a comprehensive view and an actionable plan. Using the author's research-backed Equal Hiring Index® and work with hundreds of leading employers, the book offers readers the most actionable examples of the policies and practices that inclusive hiring leaders employ today. You'll learn: How to take stock of your existing hiring and retention practices to identify the most urgent and high impact opportunities Where to enact tactical changes to your hiring practices and policies that will reduce bias and improve accessibility How to develop a comprehensive diversity sourcing strategy by building a holistic understanding of underrepresented communities How to shift the mindset and behavior of people in your organization to collectively advance your

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diversity hiring efforts How to measure your progress and report your impact in your diversity hiring Perfect for human resources professionals, managers, executives, and board members, and existing and aspiring leaders passionate about diversity, Hiring for Diversity will also earn a prominent spot on the bookshelves of anyone interested in making the company they work in more inclusive, fair, and equitable.

When it comes to network security, many users and administrators are running scared, and justifiably so. The sophistication of attacks against computer systems increases with each new Internet worm. What's the worst an attacker can do to you? You'd better find out, right? That's what Security Warrior teaches you. Based on the principle that the only way to defend yourself is to understand your attacker in depth, Security Warrior reveals how your systems can be attacked. Covering everything from reverse engineering to SQL attacks, and including topics like social engineering, antifoensics, and common attacks against UNIX and Windows systems, this book teaches you to know your enemy and how to be prepared to do battle. Security Warrior places particular emphasis on reverse engineering. RE is a fundamental skill for the administrator, who must be aware of all kinds of malware that can be installed on his machines -- trojaned binaries, "spyware" that looks innocuous but that sends private data back to its creator, and more. This is the only book to discuss reverse engineering for Linux or Windows CE. It's also the only book that shows you how SQL injection works, enabling you to inspect your database and web applications for

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vulnerability. Security Warrior is the most comprehensive and up-to-date book covering the art of computer war: attacks against computer systems and their defenses. It's often scary, and never comforting. If you're on the front lines, defending your site against attackers, you need this book. On your shelf--and in your hands.

**\*\*Instant International Bestseller, New York Times Bestseller, USA Today Bestseller, Wall Street Journal Bestseller, Los Angeles Times Bestseller, Publishers Weekly Bestseller\*\*** Uncover never-before-told stories in this epic tale of self-discovery by a Rock n Roll disciple and member of the E Street Band. What story begins in a bedroom in suburban New Jersey in the early '60s, unfolds on some of the country's largest stages, and then ranges across the globe, demonstrating over and over again how Rock and Roll has the power to change the world for the better? This story. The first true heartbeat of Unrequited Infatuations is the moment when Stevie Van Zandt trades in his devotion to the Baptist religion for an obsession with Rock and Roll. Groups like the Beatles and the Rolling Stones created new ideas of community, creative risk, and principled rebellion. They changed him forever. While still a teenager, he met Bruce Springsteen, a like-minded outcast/true believer who became one of his most important friends and bandmates. As Miami Steve, Van Zandt anchored the E Street Band as they conquered the Rock and Roll world. And then, in the early '80s, Van Zandt stepped away from E Street to embark on his own odyssey. He refashioned himself as Little Steven, a political songwriter and performer, fell in love with Maureen Santoro

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who greatly expanded his artistic palette, and visited the world's hot spots as an artist/journalist to not just better understand them, but to help change them. Most famously, he masterminded the recording of "Sun City," an anti-apartheid anthem that sped the demise of South Africa's institutionalized racism and helped get Nelson Mandela out of prison. By the '90s, Van Zandt had lived at least two lives—one as a mainstream rocker, one as a hardcore activist. It was time for a third. David Chase invited Van Zandt to be a part of his new television show, the Sopranos—as Silvio Dante, he was the unconditionally loyal consigliere who sat at the right hand of Tony Soprano (a relationship that oddly mirrored his real-life relationship with Bruce Springsteen). Underlying all of Van Zandt's various incarnations was a devotion to preserving the centrality of the arts, especially the endangered species of Rock. In the twenty-first century, Van Zandt founded a groundbreaking radio show (Little Steven's Underground Garage), created the first two 24/7 branded music channels on SiriusXM (Underground Garage and Outlaw Country), started a fiercely independent record label (Wicked Cool), and developed a curriculum to teach students of all ages through the medium of music history. He also rejoined the E Street Band for what has now been a twenty-year victory lap. ?Unrequited Infatuations chronicles the twists and turns of Stevie Van Zandt's always surprising life. It is more than just the testimony of a globe-trotting nomad, more than the story of a groundbreaking activist, more than the odyssey of a spiritual seeker, and more than a master class in rock and roll (not to mention a

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dozen other crafts). It's the best book of its kind because it's the only book of its kind. For 40 years, Bob Gruen's name has been synonymous with rock and roll. From taking early photos on tour with Ike and Tina Turner, to capturing the early CBGB/Max's Kansas City scene to covering current stadium rockers such as Green Day, Gruen has always been at the right place at the right time—and he's always gotten the shot. In this lavish monograph, Gruen has curated his favorite photographs from his career, with intimate captions and behind-the-scenes anecdotes. Featuring such illustrious acts as the Clash, Led Zeppelin, the Rolling Stones, Sex Pistols, Ramones, and more, and including an introduction by the legendary Debbie Harry of Blondie, this collection is a must-have for all fans of rock and roll. Praise for *Rock Seen*: “*Rock Seen* offers a disarmingly natural look at icons like Blondie and Cher before the era of the posed rock-star portrait kicked in.” —*Entertainment Weekly* “*Rock Seen* . . . hits the high points on and off the stage in rock's past four decades.” —*USA Today* “Go backstage with 40 years' worth of rock-and-roll images from the legendary lens of Bob Gruen, who was once John Lennon's personal photographer. From over-the-top action shots of Elton John's acrobatics to private pics of Lennon and Yoko in bed with baby Sean to boozy plane rides with the Sex Pistols, the glossy pages act as your VIP pass to the rock-star lifestyle you've dreamed of.” —*Marie Claire* “The official

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monograph of rock and roll's most famous photographer, Rock Seen is a must-have for all rock fans." —RollingStone.com "Gruen had a front-row seat to the rise of many rock legends [from] Elton John to Green Day." —New York Post "If you want to give the gift of great music photos, you honestly cannot do better than these thrilling images from Bob Gruen's forty-year-long career as one of rock's iconic photographers" —Creative Loafing "It all came flooding back when I opened Bob Gruen's beautiful new book, Rock Seen, a sparkling collage of live concert shots and portraits from the last forty years." —Irish Echo

This compilation of long-inaccessible puzzles by a famous puzzle master offers challenges ranging from arithmetical and algebraical problems to those involving geometry, combinatorics, and topology, plus game, domino, and match puzzles. Includes answers.

Includes an introductory unnumbered issue for Oct. 1958, called Preview edition. Our political system in America is broken, right? Wrong. The truth is, the American political system is working exactly how it is designed to work, and it isn't designed or optimized today to work for us—for ordinary citizens. Most people believe that our political system is a public institution with high-minded principles and impartial rules derived from the Constitution. In reality, it has become a private industry dominated by a textbook duopoly—the Democrats and the

Republicans—and plagued and perverted by unhealthy competition between the players. Tragically, it has therefore become incapable of delivering solutions to America's key economic and social challenges. In fact, there's virtually no connection between our political leaders solving problems and getting reelected. In *The Politics Industry*, business leader and path-breaking political innovator Katherine Gehl and world-renowned business strategist Michael Porter take a radical new approach. They ingeniously apply the tools of business analysis—and Porter's distinctive Five Forces framework—to show how the political system functions just as every other competitive industry does, and how the duopoly has led to the devastating outcomes we see today. Using this competition lens, Gehl and Porter identify the most powerful lever for change—a strategy comprised of a clear set of choices in two key areas: how our elections work and how we make our laws. Their bracing assessment and practical recommendations cut through the endless debate about various proposed fixes, such as term limits and campaign finance reform. The result: true political innovation. *The Politics Industry* is an original and completely nonpartisan guide that will open your eyes to the true dynamics and profound challenges of the American political system and provide real solutions for reshaping the system for the benefit of all. THE INSTITUTE FOR POLITICAL INNOVATION The authors will donate all royalties



from the sale of this book to the Institute for Political Innovation.

The essential interaction design guide, fully revised and updated for the mobile age *About Face: The Essentials of Interaction Design, Fourth Edition* is the latest update to the book that shaped and evolved the landscape of interaction design. This comprehensive guide takes the worldwide shift to smartphones and tablets into account. New information includes discussions on mobile apps, touch interfaces, screen size considerations, and more. The new full-color interior and unique layout better illustrate modern design concepts. The interaction design profession is blooming with the success of design-intensive companies, priming customers to expect "design" as a critical ingredient of marketplace success. Consumers have little tolerance for websites, apps, and devices that don't live up to their expectations, and the responding shift in business philosophy has become widespread. *About Face* is the book that brought interaction design out of the research labs and into the everyday lexicon, and the updated Fourth Edition continues to lead the way with ideas and methods relevant to today's design practitioners and developers. Updated information includes:

- Contemporary interface, interaction, and product design methods
- Design for mobile platforms and consumer electronics
- State-of-the-art interface recommendations and up-to-date examples
- Updated Goal-Directed Design

methodology Designers and developers looking to remain relevant through the current shift in consumer technology habits will find About Face to be a comprehensive, essential resource.

Chapter One In this chapter is the information needed to prepare for your journey and what to as well as what not to pack in your luggage. So let's get right to it and make your next trip a safe and more pleasurable experience. First off let's get you in the mindset for flying and the need for planning. When planning a trip one usually has a certain destination in mind. Whether your destination is for business or pleasure the principals are the same. There is always how long are you staying and what to bring? The how long are you planning to stay is usually already established in most cases. However, in the case of the business traveler whose schedules is determined by the office, a client, or even flight schedules may dictate ones planning. This usually means everything is up in the air and can leave a lot to be desired. With this in mind whether business or pleasure the basics still apply. So let's look at the traveler that is planning a pleasure trip. In this case the time to think about the airport is when you start planning your trip. Since the events on September 11, 2001, the whole mind set of traveling has been put on it ear so to speak. As it is with most individuals, myself included before I became a Transportation Security Officer (TSO) with the (TSA) in 2002,

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the name of the game was haphazard packing as a rule of thumb. This is what I call having most of the items in your luggage placed there the night before your departure. Usually these items are things that never get used in the course of ones travels. Such items as too many shoes, clothing, unnecessary foods and some toys are among the many things that are packed in luggage across this nation that need not be included. I am sure most of you know exactly what I am talking about. A good example is when I went sailing on a 32 foot sail boat in the Caribbean for a week with my daughter and son-in-law in 2000. I had packed enough clothes for a week only to use half the items packed. In this case I really only needed a swimsuit, several shirts, two pairs of shoes and traveling clothes. What is my style? There are other types of packers that travel the skyways. One of these is the individual that packs like the ones you might see in the movies or in one of your favorite television programs or commercials. Opening the dresser drawers and just stuffing items in the luggage. These individuals, while in their own rights, see no harm in the form of packing, however, they will have some difficulties at the airport. This form of packing makes inspection of their personal items by TSA difficult at best. With all the modern x-ray equipment used in today's airports and new technologies being developed continuously, it is still up to the TSO to determine the nature of the items within your luggage. And this

form of packing has and does create problems for these passengers. Ways to avoid this will be addressed later in this chapter. Then there is the traveler at the other end of the packing spectrum that has everything folded and arranged perfectly so that everything within that piece of luggage has a rhyme and a purpose for its placement. This can be either a male or a female doing the packing. These types of pack jobs are in themselves great to look at and for the most part we as the ones screening that piece of luggage look forward to. But as in all cases even these types of luggage have their problems too. The level of inspection being performed on that piece of luggage and the individual doing the screening has a lot to do with the level of neatness your luggage is in when returned to you. Not all TSOs, to be honest with you, are interested in repacking your items as carefully as you would. Even though the TSA has spent many hours training TSOs on the proper procedures for inspecting person's luggage and the items within that piece of luggage, the manner in which the luggage has been packed may cause difficulties in its self.

Z-Wave is the leading international standard for wireless communication in Smart Homes. Different products from different vendors work together and interoperate in one single network to provide intelligent lighting, safety, security and energy efficiency. This book describes all you need to know about Z-Wave: The radio layer standardized by

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the international ITU organization, the networking between the device to realize a stable communication and finally the device specific application functions that ensure the interoperability between the different devices. Practical guidance for the installation and trouble shooting of wireless networks is provided as well.

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.

The perfect gift for music lovers and Neil Young fans, telling the story behind Neil Young's legendary career and his iconic, beloved songs. "I think I will have to use my time wisely and keep my thoughts straight if I am to succeed and deliver the cargo I so carefully have carried thus far to the outer reaches."—Neil Young, from *Waging Heavy Peace* Legendary singer and songwriter Neil Young's storied career has spanned over forty years and yielded some of the modern era's most enduring music. Now for the first time ever, Young reflects upon his life—from his Canadian childhood, to his part in

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the sixties rock explosion with Buffalo Springfield and Crosby, Stills, Nash & Young, through his later career with Crazy Horse and numerous private challenges. An instant classic, *Waging Heavy Peace* is as uncompromising and unforgettable as the man himself.

Blockchain technology is powering our future. As the technology behind cryptocurrencies like bitcoin and Facebook's Libra, open software platforms like Ethereum, and disruptive companies like Ripple, it's too important to ignore. In this revelatory book, Don Tapscott, the bestselling author of *Wikinomics*, and his son, blockchain expert Alex Tapscott, bring us a brilliantly researched, highly readable, and essential book about the technology driving the future of the economy. Blockchain is the ingeniously simple, revolutionary protocol that allows transactions to be simultaneously anonymous and secure by maintaining a tamperproof public ledger of value. Though it's best known as the technology that drives bitcoin and other digital currencies, it also has the potential to go far beyond currency, to record virtually everything of value to humankind, from birth and death certificates to insurance claims, land titles, and even votes. Blockchain is also essential to understand if you're an artist who wants to make a living off your art, a consumer who wants to know where that hamburger meat really came from, an immigrant who's tired of paying big fees to send money home to your loved ones, or an entrepreneur looking for a new platform to build a business. And those examples are barely the tip of the iceberg. As with major

paradigm shifts that preceded it, blockchain technology will create winners and losers. This book shines a light on where it can lead us in the next decade and beyond. This book provides a comprehensive introduction to embedded flash memory, describing the history, current status, and future projections for technology, circuits, and systems applications. The authors describe current main-stream embedded flash technologies from floating-gate 1Tr, floating-gate with split-gate (1.5Tr), and 1Tr/1.5Tr SONOS flash technologies and their successful creation of various applications. Comparisons of these embedded flash technologies and future projections are also provided. The authors demonstrate a variety of embedded applications for auto-motive, smart-IC cards, and low-power, representing the leading-edge technology developments for eFlash. The discussion also includes insights into future prospects of application-driven non-volatile memory technology in the era of smart advanced automotive system, such as ADAS (Advanced Driver Assistance System) and IoE (Internet of Everything). Trials on technology convergence and future prospects of embedded non-volatile memory in the new memory hierarchy are also described. Introduces the history of embedded flash memory technology for micro-controller products and how embedded flash innovations developed; Includes comprehensive and detailed descriptions of current main-stream embedded flash memory technologies, sub-system designs and applications; Explains why embedded flash memory requirements are different from those of stand-alone flash memory and how to achieve specific goals

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with technology development and circuit designs; Describes a mature and stable floating-gate 1Tr cell technology imported from stand-alone flash memory products - that then introduces embedded-specific split-gate memory cell technologies based on floating-gate storage structure and charge-trapping SONOS technology and their eFlash sub-system designs; Describes automotive and smart-IC card applications requirements and achievements in advanced eFlash beyond 4 0nm node.

If you want to know how it feels to be the DJ, to share the music you love with other people, to receive the adulation of packed dancefloors night after night, this book will show you exactly what to do to get there. Whether you're brand-new to this, a DJ who wants to finally break out of the bedroom, or you just want to improve your game, the five-step formula in *Rock The Dancefloor!* will help you to become a truly great DJ. This clear and practical guide will enable you to: Understand modern DJ gear, in order to avoid expensive mistakes Assemble the best music collection, so you can fill any dancefloor Quickly master all the techniques, so your DJ mixes sound amazing Perform like a pro at any type of gig: parties, bars, night clubs... Promote yourself effectively, for more and better paid bookings

Your all-inclusive guide to all the latest technologies. Providing you with a better understanding of the latest technologies, including Cloud Computing, Software as a Service, Service-Oriented Architecture (SOA), Open Source, Mobile Computing, Social Networking, and Business Intelligence, *The Next Wave of Technologies: Opportunities from Chaos* helps you know which



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questions to ask when considering if a specific technology is right for your organization.:  
Demystifies powerful but largely misunderstood technologies; Explains how each technology works; Provides key guidance on determining if a p.

In June 2019, the Committee on the Judiciary initiated a bipartisan investigation into the state of competition online, spearheaded by the Subcommittee on Antitrust, Commercial and Administrative Law. As part of a top-to-bottom review of the market, the Subcommittee examined the dominance of Amazon, Apple, Facebook, and Google, and their business practices to determine how their power affects our economy and our democracy. Additionally, the Subcommittee performed a review of existing antitrust laws, competition policies, and current enforcement levels to assess whether they are adequate to address market power and anticompetitive conduct in digital markets. Over the course of our investigation, we collected extensive evidence from these companies as well as from third parties—totaling nearly 1.3 million documents. We held seven hearings to review the effects of market power online—including on the free and diverse press, innovation, and privacy—and a final hearing to examine potential solutions to concerns identified during the investigation and to inform this Report's recommendations. A year after initiating the investigation, we received testimony from the Chief Executive Officers of the investigated companies: Jeff Bezos, Tim Cook, Mark Zuckerberg, and Sundar Pichai. For nearly six hours, we pressed for answers about their business practices, including about evidence concerning the extent to which they have exploited, entrenched, and expanded their power over digital markets in anticompetitive and abusive ways. Their answers were often evasive and non-responsive, raising fresh questions about whether they believe they are beyond the reach of democratic oversight. Although these

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four corporations differ in important ways, studying their business practices has revealed common problems

Outsider musicians can be the product of damaged DNA, alien abduction, drug fry, demonic possession, or simply sheer obliviousness. This book profiles dozens of outsider musicians, both prominent and obscure—figures such as The Shaggs, Syd Barrett, Tiny Tim, Jandek, Captain Beefheart, Daniel Johnston, Harry Partch, and The Legendary Stardust Cowboy—and presents their strange life stories along with photographs, interviews, cartoons, and discographies. About the only things these self-taught artists have in common are an utter lack of conventional tunefulness and an overabundance of earnestness and passion. But, believe it or not, they're worth listening to, often outmatching all contenders for inventiveness and originality. A CD featuring songs by artists profiled in the book is also available.

The evolution of advanced information environments is rapidly creating a new category of possible cyberaggression, which RAND researchers are calling virtual societal warfare in an analysis of the characteristics and future of this growing threat.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Link up, connect, or create a network-with no wires attached! With such an amazing abundance of electronic devices available in our daily lives, wouldn't it be nice to eliminate getting wrangled by all those wires? With this guide by your side, a team of technical authors walks you through creating a network in your home or office-without the expense and hassle of stringing cable or paying a network administrator. Eight self-contained minibooks answer your

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questions about wireless devices and wireless networks and address everything from hardware security to wireless hobbies and GPS. Clear, step-by-step instructions show you how to link your TV, computers, PDAs, laptops, TiVo, and sound systems to your wireless network. Discover how to configure networks and create a completely wireless environment Incorporate various hardware into your wireless network, such as notebook computers, handheld devices, sound systems, and printers Tackle common security issues and best troubleshooting practices Learn all the basics of wireless computing and how to make it work for you With this book, it's easier than ever to to create an office or home network on a Windows platform. Don't be a bird on a wire-become a part of a wireless world!

Vols. for 1970-71 includes manufacturers' catalogs.

Modern Mandarin Chinese Grammar Workbook is a book of exercises and language tasks for all learners of Mandarin Chinese. Divided into two sections, the Workbook initially provides exercises based on essential grammatical structures, and moves on to practice everyday functions such as making introductions, apologizing and expressing needs. With an extensive answer key at the back to enable students to check on their progress, main features include: exercises at various levels of challenge for a broad range of learners cross-referencing to the related Modern Mandarin Chinese Grammar a comprehensive index to exercises alphabetically arranged in terms of structures, functions, and key Chinese structure vocabulary. This second edition also offers a revised and

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expanded selection of exercises including new task-based exercises. Modern Mandarin Chinese Grammar Workbook is ideal for all learners of Mandarin Chinese, from beginner to intermediate and advanced students. It can be used both independently and alongside the Modern Mandarin Chinese Grammar (978-0-415-82714-0), which is also published by Routledge.

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