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LIFE CYCLE ASSESSMENT HANDBOOK

A GUIDE FOR ENVIRONMENTALLY SUSTAINABLE PRODUCTS

John Wiley & Sons *The first book of its kind, the Life Cycle Assessment Handbook: A Guide for Environmentally Sustainable Products will become an invaluable resource for environmentally progressive manufacturers and suppliers, product and process designers, executives and managers, and government officials who want to learn about this essential component of environmental sustainability. As the last several decades have seen a dramatic rise in the application of Life Cycle Assessment (LCA) in decision making, the interest in the life cycle concept as an environmental management and sustainability tool continues to grow. The LCA Handbook offers a look at the role that life cycle information, in the hands of companies, governments, and consumers, may have in improving the environmental performance of products and technologies. It concisely and clearly presents the various aspects of LCA in order to help the reader better understand the subject. The content of the book was designed with a certain flow in mind. After a high-level overview to describe current views and state-of-the-practice of LCA, it presents chapters that address specific LCA methodological issues including creating life cycle inventory, life cycle impact assessment, and capturing eco-systems services. These are followed by example applications of LCA in the agri-food industry; sustainable supply chain management; solid waste management; mining and mineral extraction; forest products; buildings; product innovation; and sustainable chemistry and engineering. The international success of the sustainability paradigm needs the participation of many stakeholders, including citizens, corporations, academia, and NGOs. The handbook links LCA and responsible decision making and how the life cycle concept is a critical element in environmental sustainability. It covers issues such as building capacity in developing countries and emerging economies so that they are more capable of harnessing the potential in LCA for sustainable development. Governments play a very important role with the leverage they have through procurement, regulation, international treaties, tax incentives, public outreach, and other policy tools. This compilation points to the clear trend for incorporating life cycle information into the design and development processes for products and policies, just as quality and safety concerns are now addressed throughout product design and development.*

CONSUMER PRODUCT INNOVATION AND SUSTAINABLE DESIGN

THE EVOLUTION AND IMPACTS OF SUCCESSFUL PRODUCTS

Routledge *Consumer Product Innovation and Sustainable Design follows the innovation and evolution of consumer products from vacuum cleaners to mobile phones from their original inventions to the present day. It discusses how environmental concerns and legislation have influenced their design and the profound effects these products have had on society and culture. This book also uses the lessons from the successes and failures of examples of these consumer products to draw out practical guidelines for designers, engineers, marketers and managers on how to become more effective at product development, innovation and designing for environmental sustainability.*

JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION

ON THE ORIGIN OF PRODUCTS

Cambridge University Press *Provides an evolutionary perspective on the origin of products. Offers a method to give designers directions in New Product Development.*

POPULAR SCIENCE

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.

INFORMATION TECHNOLOGY FOR MANAGERS

Cengage Learning Now today's managers can prepare to successfully oversee and understand information systems with Reynold's INFORMATION TECHNOLOGY FOR MANAGERS, 2E. This practical, insightful book prepares current and future managers to understand the critical business implications of information technology. A wealth of actual contemporary examples demonstrate how successful managers can apply information technology to improve their organizations. A new chapter on IT security, hands-on scenarios and practical cases give readers an opportunity to apply what they're learning. This edition's solid framework helps define the manager's important role in information technology and in working effectively with all members of the organization to achieve results. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INDUSTRIALIZING INNOVATION-THE NEXT REVOLUTION

Springer Over the past 25 years, the field of innovation, entrepreneurship and commercialization has reached a critical mass and maturity. It is not only possible but also essential to scale it so that an immense amount of untapped human innovative potential can be unleashed for the benefit of our people. Further, R&D centers and existing entrepreneurial ecosystems can be made more impactful. Firstly, this book succinctly identifies the entire field of innovation into one comprehensive and meaningful framework to help understand its evolution, incremental growth, super acceleration, and exponential explosion that has resulted in an innovation log jam. Secondly, it maps out common characteristics and approaches that make innovation, venture capital and investments into startups succeed much better. And, last, but not the least, it outlines measures to commercialize them in a massive way and "industrialize" innovation going forward including creating next generation 'Innovation Hubs'.

SPECTRAL ATLAS FOR AMATEUR ASTRONOMERS

A GUIDE TO THE SPECTRA OF ASTRONOMICAL OBJECTS AND TERRESTRIAL LIGHT SOURCES

Cambridge University Press Featuring detailed commented spectral profiles of more than one hundred astronomical objects, in colour, this spectral guide documents most of the important and spectroscopically observable objects accessible using typical amateur equipment. It allows you to read and interpret the recorded spectra of the main stellar classes, as well as most of the steps from protostars through to the final stages of stellar evolution as planetary nebulae, white dwarfs or the different types of supernovae. It also presents integrated spectra of stellar clusters, galaxies and quasars, and the reference spectra of some terrestrial light sources, for calibration purposes. Whether used as the principal reference for comparing with your recorded spectra or for inspiring independent observing projects, this atlas provides a breathtaking view into our Universe's past. The atlas is accompanied and supplemented by Spectroscopy for Amateur Astronomers, which explains in detail the methods for recording, processing, analysing and interpreting your spectra.

A LEADER'S GUIDE TO THRIVEABILITY

A MULTI-CAPITAL OPERATING SYSTEM FOR A REGENERATIVE INCLUSIVE ECONOMY

AuthorHouse A Leader's Guide to ThriveAbility is a field manual for Executives, Investors, Change Agents, Policymakers and future generations. The research and fieldwork we've conducted with leaders across every industry sector and civil society has led us to the inescapable conclusion that if we wish to reinvent capitalism, we need to reinvent capital and the organizations that generate and apply that capital. How can you, as a leader, use ThriveAbility to build a vibrant future for your organization or business as part of a ThriveAble world? Some of the key questions that you will need to grapple with include: 1. What are the unique capabilities needed to maximise the thriving of my organization and its stakeholders for the smallest footprint? 2. Which innovation pathways can deliver the improvements and breakthroughs needed to deliver enhanced ThriveAbility to all our stakeholders? 3. How can we measure True Value in everything we do? 4. How can we get our organization to begin the ThriveAbility Journey? 5. In what ways can advantages in 1-4 above be translated into competitive advantage versus other organizations that are not on the ThriveAbility Journey? ThriveAbility is descriptive, prescriptive, and predictive- it describes the emerging edge of leading practice in strategy, innovation, sustainability and design, while prescribing an approach which includes an equation, decision framework, process and ThriveAbility Index. ThriveAbility is predictive in the sense that it enables us to calculate the costs and benefits of different options and trade-offs in the design, development and

scaling of new products, services and experiences, along with the human and social transformations needed to achieve ThriveAbility. The purpose of this book is to provide you and your colleagues with a practical, how-to guide on how to embed ThriveAbility in your organization. It will also come in handy for investors, advisors, consultants, financiers, facilitators, regulators and academics seeking to move beyond the confines of the limiting mindsets we are stuck in with current sustainability and shareholder value added approaches.

PHOTONICS, VOLUME 3

PHOTONICS TECHNOLOGY AND INSTRUMENTATION

John Wiley & Sons "The Handbook of Photonics third volume addresses photonics technology and application. It discusses communication networks, data buffers, defense and security applications, detectors, fiber optics and amplifiers, green photonics, instrumentation and metrology, interferometers, light-harvesting materials, logic devices, optical communications, remote sensing, solar energy, solid-state lighting, and wavelength conversion"--

SUSTAINABLE ENERGY--WITHOUT THE HOT AIR

Uit Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

WHO GUIDELINES FOR INDOOR AIR QUALITY

SELECTED POLLUTANTS

World Health Organization This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

THE PSYCHIC LIFE OF POWER

THEORIES IN SUBJECTION

Stanford University Press Judith Butler's new book considers the way in which psychic life is generated by the social operation of power, and how that social operation of power is concealed and fortified by the psyche that it produces. It combines social theory, philosophy, and psychoanalysis in novel ways, and offers a more sustained analysis of the theory of subject formation implicit in her previous books.

A GUIDE TO THE PREVENTIVE CONSERVATION OF PHOTOGRAPH COLLECTIONS

Getty Publications A resource for the photographic conservator, conservation scientist, curator, as well as professional collector, this volume synthesizes both the masses of research that has been completed to date and the international standards that have been established on the subject.

LED LIGHTING

A PRIMER TO LIGHTING THE FUTURE

"O'Reilly Media, Inc." We're on the brink of a lighting revolution with light-emitting diodes—the tiny LEDs you've seen in electronic devices for years. With this practical guide, you'll go behind the scenes to see how and why manufacturers are now designing LED devices to light everything from homes and offices to streets and warehouses. Author Sal Cangeloso shows you the working parts of a "simple" LED bulb and explains the challenges electronics companies face as they push LED lighting into the mainstream. You'll learn how you can use LEDs now, and why solid state lighting will bring dramatic changes in the near future. Explore the drivers, phosphors, and integrated circuits in a typical LED bulb Understand the challenges in producing LED bulbs with acceptable brightness, color temperature, and power

consumption Learn about non-bulb LED applications, including lamps, street lights, and signage Discover the market forces driving—and impeding—the adoption of LED lighting Compare LEDs to compact fluorescent lamps (CFLs) and electron-stimulated luminescence (ESL) bulbs Gaze into the future of intelligent lighting, including networked lighting systems

INNOVATION AND ENTREPRENEURSHIP

John Wiley & Sons Innovation and Entrepreneurship 3rd Edition is an accessible text on innovation and entrepreneurship aimed specifically at undergraduate students studying business and management studies, but also those on engineering and science degrees with management courses. The text applies key theories and research on innovation and entrepreneurship and then reviews and synthesises those theories and research to apply them in a much broader and contemporary context, including the corporate and public services, emerging technologies and economies, and sustainability and development and creating and capturing value from innovation and entrepreneurship. In this third edition the authors continue to adopt an explicit process model to help organise the material with clear links between innovation and entrepreneurship. This text has been designed to be fully integrated with the Innovation Portal at www.innovation-portal.info, which contains an extensive collection of additional resources for both lecturers and students, including teaching resources, case studies, media clips, innovation tools, seminar and assessment activities and test questions.

CRIME SCENE INVESTIGATION

A GUIDE FOR LAW ENFORCEMENT

This is a guide to recommended practices for crime scene investigation. The guide is presented in five major sections, with sub-sections as noted: (1) Arriving at the Scene: Initial Response/Prioritization of Efforts (receipt of information, safety procedures, emergency care, secure and control persons at the scene, boundaries, turn over control of the scene and brief investigator/s in charge, document actions and observations); (2) Preliminary Documentation and Evaluation of the Scene (scene assessment, "walk-through" and initial documentation); (3) Processing the Scene (team composition, contamination control, documentation and prioritize, collect, preserve, inventory, package, transport, and submit evidence); (4) Completing and Recording the Crime Scene Investigation (establish debriefing team, perform final survey, document the scene); and (5) Crime Scene Equipment (initial responding officers, investigator/evidence technician, evidence collection kits).

FUNDAMENTALS OF LIGHT MICROSCOPY AND ELECTRONIC IMAGING

John Wiley & Sons Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website: www.wiley.com/go/murphy/lightmicroscopy

TRENDS AND CHALLENGES IN MARITIME ENERGY MANAGEMENT

Springer This book provides an overview of contemporary trends and challenges in maritime energy management (MEM). Coordinated action is necessary to achieve a low carbon and energy-efficient maritime future, and MEM is the prevailing framework aimed at reducing greenhouse gas emissions resulting from maritime industry activities. The book familiarizes readers with the status quo in the field, and paves the way for finding solutions to perceived challenges. The 34 contributions cover six important aspects: regulatory framework; energy-efficient ship design; energy efficient ship and port operation; economic and social dimensions; alternative fuels and wind-assisted ship propulsion; and marine renewable energy. This pioneering work is intended for researchers and academics as well as practitioners and policymakers involved in this important field.

SENSING AND SIGNAL PROCESSING IN SMART HEALTHCARE

MDPI In the last decade, we have witnessed the rapid development of electronic technologies that are transforming our daily lives. Such technologies are often integrated with various sensors that facilitate the collection of human motion and physiological data and are equipped with wireless communication modules such as Bluetooth, radio frequency identification, and near-field communication. In smart healthcare applications, designing ergonomic and intuitive human-computer interfaces is crucial because a system that is not easy to use will create a huge obstacle to adoption and may significantly reduce the efficacy of the solution. Signal and data processing is another important consideration in smart healthcare applications because it must ensure high accuracy with a high level of

confidence in order for the applications to be useful for clinicians in making diagnosis and treatment decisions. This Special Issue is a collection of 10 articles selected from a total of 26 contributions. These contributions span the areas of signal processing and smart healthcare systems mostly contributed by authors from Europe, including Italy, Spain, France, Portugal, Romania, Sweden, and Netherlands. Authors from China, Korea, Taiwan, Indonesia, and Ecuador are also included.

QUALITATIVE DATA ANALYSIS

A USER FRIENDLY GUIDE FOR SOCIAL SCIENTISTS

Routledge First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

ENERGY EFFICIENCY POLICY PROFILES LIGHT'S LABOUR'S LOST POLICIES FOR ENERGY-EFFICIENT LIGHTING

X-RAY EQUIPMENT MAINTENANCE AND REPAIRS WORKBOOK FOR RADIOGRAPHERS AND RADIOLOGICAL TECHNOLOGISTS

World Health Organization The X-ray equipment maintenance and repairs workbook is intended to help and guide staff working with, and responsible for, radiographic equipment and installations in remote institutions where the necessary technical support is not available, to perform routine maintenance and minor repairs of equipment to avoid break downs. The book can be used for self study and as a checklist for routine maintenance procedures.

THE LIGHTING PATTERN BOOK FOR HOMES

McGraw-Hill Professional Publishing The complete, authoritative residential lighting resource, from the largest research center in the world, supplies all the practical designs, details, and plans architects need to select, design, and install efficient lighting that suits both aesthetic and economic needs. Filled with hundreds of photos and sketches, this book explains and illustrates all common lighting techniques.

CANADIAN CONSENSUS GUIDELINES FOR THE TREATMENT OF SEASONAL AFFECTIVE DISORDER

Clinical & Academic Pub.

ARTIFICIAL LIGHT IN THE ENVIRONMENT

There is an urgent need for Government to recognise that artificial light in the wrong place or at the wrong time is a pollutant which can harm the natural environment. This report focusses on the loss of the view of the stars, the nuisance caused by badly designed lighting, and the effects of artificial light on nature and ecosystems. The Commission heard evidence that suggests that more light isn't always better in terms of reducing crime or the incidence of road traffic accidents. Millions of road lights are nearly 30 years old and will need replacing and this should be seen as an opportunity to think about minimising the negative impacts of stray light. There is also evidence suggesting that artificial light can have adverse effects on the biology of many plants and animals. The move towards replacing existing yellow/orange road lighting, which does not affect many organisms, with more modern broader wavelength lighting, which is likely to be detected by a greater number and variety of organisms, could lead to significant impacts on natural systems. The RCEP are therefore keen for local authorities to consider alternatives to simply providing more light, such as using new lighting technologies coming on-stream, and dimming or turning off lights in quieter areas where they are not needed. This would have the added benefit of reducing energy use

SPECULATIVE EVERYTHING

DESIGN, FICTION, AND SOCIAL DREAMING

MIT Press How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). *Speculative Everything* offers a tour through an

emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

PENETRATION TESTING

A HANDS-ON INTRODUCTION TO HACKING

No Starch Press Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In *Penetration Testing*, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine-based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: -Crack passwords and wireless network keys with brute-forcing and wordlists -Test web applications for vulnerabilities -Use the Metasploit Framework to launch exploits and write your own Metasploit modules -Automate social-engineering attacks -Bypass antivirus software -Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, *Penetration Testing* is the introduction that every aspiring hacker needs.

LIGHT-EMITTING DIODES

Cambridge University Press Revised and fully updated, the second edition of this graduate textbook offers a comprehensive explanation of the technology and physics of LEDs such as infrared, visible-spectrum, ultraviolet, and white LEDs made from III-V semiconductors. Elementary properties such as electrical and optical characteristics are reviewed, followed by the analysis of advanced device structures. With nine additional chapters, the treatment of LEDs has been vastly expanded, including new material on device packaging, reflectors, UV LEDs, III-V nitride materials, solid-state sources for illumination applications, and junction temperature. Radiative and non-radiative recombination dynamics, methods for improving light extraction, high-efficiency and high-power device designs, white-light emitters with wavelength-converting phosphor materials, optical reflectors, and spontaneous recombination in resonant-cavity structures are discussed in detail. With exercises, solutions, and illustrative examples, this textbook will be of interest to scientists and engineers working on LEDs and graduate students in electrical engineering, applied physics, and materials science.

EMERGING TECHNOLOGIES IN COMPUTING

FIRST INTERNATIONAL CONFERENCE, ICETIC 2018, LONDON, UK, AUGUST 23-24, 2018, PROCEEDINGS

Springer This book constitutes the refereed conference proceedings of the First International Conference on Emerging Technologies in Computing, iCEtic 2018, held in London, UK, in August 2018. The 26 revised full papers were reviewed and selected from more than 59 submissions and are organized in topical sections covering Cloud, IoT and distributed computing, software engineering, communications engineering and vehicular technology, AI, expert systems and big data analytics, Web information systems and applications, security, database system, economics and business engineering, mLearning and eLearning.

THE INDUSTRIAL ELECTRONICS HANDBOOK

CRC Press From traditional topics that form the core of industrial electronics, to new and emerging concepts and technologies, *The Industrial Electronics Handbook*, in a single volume, has the field covered. Nowhere else will you find so much information on so many major topics in the field. For facts you need every day, and for discussions on topics you have only dreamed of, *The Industrial Electronics Handbook* is an ideal reference.

OUTDOOR LIGHTING: PHYSICS, VISION AND PERCEPTION

Springer Science & Business Media The present book is based on the experience of the author. The experience is mainly the result of years of research, of consulting work, and in participation in policy

decision making in many fields, most, but not all, related to outdoor lighting. To some degree, the book represents the preference of the author. The selection of the subjects is based on more than 50 years of experience of what is desirable to know for persons engaged in scientific research or practical application in the fields of lighting and vision. The subjects deal with a number of fundamental aspects. The theorists must have them at their fingertips, whereas the practical engineers may assume them as known in their daily work. The selection of subjects is based in part by the questions that came to the author over the years, but even more by the preference of the author himself. In this respect, it is a personal book. Thus, it should be stressed that the book is not a 'handbook' or even a 'textbook'; many subjects that commonly are treated in such books are not included here. Not because they lack importance, but because the author feels that they are adequately treated elsewhere. Some relevant works are mentioned in the References. Over the years, the author has been engaged in giving courses on vision and lighting, lately more in particular on Masterclasses on a post-graduate or post-doctorate level.

THE LANDSCAPE LIGHTING BOOK

Wiley This richly illustrated, up-to-date guide offers practical coverage of all aspects of lighting design. Written by an award-winning, internationally known lighting designer, it covers lighting practices, materials, and their design applications and offers guidelines for preparing lighting drawings, control and transfer charts, symbol lists, and other technical specifications. This edition provides a new focus on the use of LEDs, as well as new and expanded coverage of renderings, Mesopic Vision, and the latest controls approaches and systems.

WHY WE SLEEP

UNLOCKING THE POWER OF SLEEP AND DREAMS

Simon and Schuster "Sleep is one of the most important but least understood aspects of our life, wellness, and longevity ... An explosion of scientific discoveries in the last twenty years has shed new light on this fundamental aspect of our lives. Now ... neuroscientist and sleep expert Matthew Walker gives us a new understanding of the vital importance of sleep and dreaming"--Amazon.com.

INTRODUCTION TO EMBEDDED SYSTEMS, SECOND EDITION

A CYBER-PHYSICAL SYSTEMS APPROACH

MIT Press An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

HANDBOOK OF SEMICONDUCTOR MANUFACTURING TECHNOLOGY

CRC Press Retaining the comprehensive and in-depth approach that cemented the bestselling first edition's place as a standard reference in the field, the Handbook of Semiconductor Manufacturing Technology, Second Edition features new and updated material that keeps it at the vanguard of today's most dynamic and rapidly growing field. Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world's leading specialists in every area of semiconductor manufacturing to provide the most reliable, authoritative, and industry-leading information available. Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter, this edition features five entirely new contributions on... Silicon-on-insulator (SOI) materials and devices Supercritical CO₂ in semiconductor cleaning Low- κ dielectrics Atomic-layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits (ICs) Reflecting rapid progress in many areas, several chapters were heavily revised and updated, and in some cases, rewritten to reflect rapid advances in such areas as interconnect technologies, gate dielectrics, photomask fabrication, IC packaging, and 300 mm wafer fabrication. While no book can be up-to-the-minute with the advances in the semiconductor field, the Handbook of Semiconductor Manufacturing Technology keeps the most important data, methods, tools, and techniques close at hand.

FRONTLINES

STORIES OF GLOBAL ENVIRONMENTAL JUSTICE

John Hunt Publishing Every unpacked frontline is one cutting edge of an economic system and political ideology that is destroying life on earth. Revealing our ecosystems to be under a sustained attack, Nick Meynen finds causes for hope in unconventional places. 'In his wide-ranging journalism and writing, Nick Meynen has been vividly mapping struggles for justice around the world. His new book is a rich collection of the human stories of those struggles, from resistance to mining in India and Greece, to land grabbing in Uganda, to a landmark climate lawsuit in the Netherlands. The book harnesses the power of lived experience to bring our most urgent, high-stakes policy debates to life, and it deserves a wide international audience.' Naomi Klein, author of *The Shock Doctrine* and *This Changes Everything: Capitalism vs. the Climate*

THE DESIGN WARRIOR'S GUIDE TO FPGAS

DEVICES, TOOLS AND FLOWS

Elsevier Field Programmable Gate Arrays (FPGAs) are devices that provide a fast, low-cost way for embedded system designers to customize products and deliver new versions with upgraded features, because they can handle very complicated functions, and be reconfigured an infinite number of times. In addition to introducing the various architectural features available in the latest generation of FPGAs, *The Design Warrior's Guide to FPGAs* also covers different design tools and flows. This book covers information ranging from schematic-driven entry, through traditional HDL/RTL-based simulation and logic synthesis, all the way up to the current state-of-the-art in pure C/C++ design capture and synthesis technology. Also discussed are specialist areas such as mixed hardware/software and DSP-based design flows, along with innovative new devices such as field programmable node arrays (FPNAs). Clive "Max" Maxfield is a bestselling author and engineer with a large following in the electronic design automation (EDA) and embedded systems industry. In this comprehensive book, he covers all the issues of interest to designers working with, or contemplating a move to, FPGAs in their product designs. While other books cover fragments of FPGA technology or applications this is the first to focus exclusively and comprehensively on FPGA use for embedded systems. First book to focus exclusively and comprehensively on FPGA use in embedded designs World-renowned best-selling author Will help engineers get familiar and succeed with this new technology by providing much-needed advice on choosing the right FPGA for any design project

TAKE CONTROL OF APPLE HOME AUTOMATION

alt concepts Manage your smart home with Apple's HomeKit platform Version 1.4, updated June 29, 2022 Thanks to Apple's HomeKit platform, you can easily configure smart home devices (such as light bulbs, outlets, thermostats, sensors, cameras, and door locks) from a variety of manufacturers to behave exactly as you need them to; integrate them with a hub such as a HomePod, Apple TV, or iPad; and control them with an iOS/iPadOS device, a Mac, an Apple Watch, Siri commands, or automated programming. This book gives you all the information you need to get started. "Smart home" devices are everywhere these days—you can buy internet-connected light bulbs, thermostats, door locks, sensors, and dozens of other products. But these devices aren't very smart on their own. Apple's HomeKit platform offers a way to integrate, monitor, control, and automate smart home devices from a wide variety of manufacturers. Using the built-in Home app on a Mac or iOS/iPadOS device (perhaps along with third-party apps), you can connect to your various smart devices, see what they're up to, control them, and even get them to operate on a schedule or respond to changing conditions in your home automatically. Even with HomeKit, however, home automation can be a daunting prospect. That's why TidBITS Managing Editor Josh Centers wrote *Take Control of Apple Home Automation*. The book walks you carefully through every step of the process, showing you how you can start with a basic system that costs less than \$50 and work your way up to as much complexity as you want or need. And you don't have to be a computer geek to simplify and improve your life with HomeKit-compatible products. Even if you don't know a wire nut from a macadamia or which end of a screwdriver to stick in a socket (spoiler: neither!), Josh's thorough advice will enable you to work wonders in your home. In this book, you'll learn:

- The most common home automation myths (and why you shouldn't worry about them)
- How to choose HomeKit-compatible devices that meet your needs, and which products you might want to avoid
- Exactly what HomeKit is, what it does, how it works, and what its limitations are
- Why you need a hub (in the form of an Apple TV, HomePod, or iPad) and how to set it up
- Important safety rules for working with electrical products, especially those that require wiring
- How to install advanced accessories such as a smart switch, thermostat, or door/window sensor—including illustrated, step-by-step instructions
- What Apple's Home app for Mac and iOS/iPadOS does—and how to configure homes, zones, rooms, accessories, services, and scenes
- Tips for controlling your smart home using a Mac, iOS/iPadOS device, Apple Watch, HomePod, or Siri
- Ways to automate your smart home using schedules, sensors, geofencing, and other tools (without making your house seem haunted)
- The best ways to troubleshoot home automation problems

This book was sponsored by Elgato (the original makers of the Eve line of HomeKit devices, which spun off into a separate company in 2018), so many of the examples feature Eve products, although nearly all the advice in the book is applicable to HomeKit products from any manufacturer. (You'll also read about working with Philips Hue bulbs, ecobee thermostats, and numerous other devices.) If you're an Apple user who's interested in

joining the smart home revolution—or adding even more smarts to your existing setup—this book is the ideal guide.

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