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KEY=WAVE - GIANNA HERNANDEZ

THE ESSENTIAL GUIDE TO TELECOMMUNICATIONS

Prentice Hall “Annabel Dodd has cogently untangled the wires and switches and technobabble of the telecommunications revolution and explained how the introduction of the word ‘digital’ into our legislative and regulatory lexicon will affect consumers, companies and society into the next millennium.” - United States Senator Edward J. Markey of Massachusetts; Member, U.S. Senate Subcommittee on Communications, Technology, Innovation, and the Internet “Annabel Dodd has a unique knack for explaining complex technologies in understandable ways. This latest revision of her book covers the rapid changes in the fields of broadband, cellular, and streaming technologies; newly developing 5G networks; and the constant changes happening in both wired and wireless networks. This book is a must-read for anyone who wants to understand the rapidly evolving world of telecommunications in the 21st century!” - David Mash, Retired Senior Vice President for Innovation, Strategy, and Technology, Berklee College of Music Completely updated for current trends and technologies, *The Essential Guide to Telecommunications, Sixth Edition*, is the world’s top-selling, accessible guide to the fast-changing global telecommunications industry. Writing in easy-to-understand language, Dodd demystifies today’s most significant technologies, standards, architectures, and trends. She introduces leading providers worldwide, explains where they fit in the marketplace, and reveals their key strategies. New topics covered in this edition include: LTE Advanced and 5G wireless, modern security threats and countermeasures, emerging applications, and breakthrough techniques for building more scalable, manageable networks. Gain a practical understanding of modern cellular, Wi-Fi, Internet, cloud, and carrier technologies Discover how key technical, business, and regulatory innovations are changing the industry See how streaming video, social media, cloud computing, smartphones, and the Internet of Things are transforming networks Explore growing concerns about security and privacy, and review modern strategies for detecting and mitigating network breaches Learn how Software Defined Networks (SDN) and Network Function Virtualization (NFV) add intelligence to networks, enabling automation, flexible configurations, and advanced networks Preview cutting-edge, telecom-enabled applications and gear-from mobile payments to drones Whether you’re an aspiring network engineer looking for a broad understanding of the industry, or a salesperson, marketer, investor, or customer, this indispensable guide provides everything you need to know about telecommunications right now. This new edition is ideal for both self-study and classroom instruction. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

ULTRASOUND ELASTOGRAPHY

BoD - Books on Demand Elastography, the science of creating noninvasive images of mechanical characteristics of tissues, has been rapidly evolving in recent years. The advantage of this technique resides in the ability to rapidly detect and quantify the changes in the stiffness of soft tissues resulting from specific pathological or physiological processes. Ultrasound elastography is nowadays applied especially on the liver and breast, but the technique has been increasingly used for other tissues including the thyroid, lymph nodes, spleen, pancreas, gastrointestinal tract, kidney, prostate, and the musculoskeletal and vascular systems. This book presents some of the applications of strain and shear-wave ultrasound elastography in hepatic, pancreatic, breast, and musculoskeletal conditions.

COMPLETE A+ GUIDE TO IT HARDWARE AND SOFTWARE

AA COMPTIA A+ CORE 1 (220-1001) & COMPTIA A+ CORE 2 (220-1002) TEXTBOOK

Pearson IT Certification Master IT hardware and software installation, configuration, repair, maintenance, and troubleshooting and fully prepare for the CompTIA® A+ Core 1

(220-1001) and Core 2 (220-1002) exams. This is your all-in-one, real-world, full-color guide to connecting, managing, and troubleshooting modern devices and systems in authentic IT scenarios. Its thorough instruction built on the CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam objectives includes coverage of Windows 10, Mac, Linux, Chrome OS, Android, iOS, cloud-based software, mobile and IoT devices, security, Active Directory, scripting, and other modern techniques and best practices for IT management. Award-winning instructor Cheryl Schmidt also addresses widely-used legacy technologies—making this the definitive resource for mastering the tools and technologies you’ll encounter in real IT and business environments. Schmidt’s emphasis on both technical and soft skills will help you rapidly become a well-qualified, professional, and customer-friendly technician. **LEARN MORE QUICKLY AND THOROUGHLY WITH THESE STUDY AND REVIEW TOOLS:** Learning Objectives and chapter opening lists of CompTIA A+ Certification Exam Objectives make sure you know exactly what you’ll be learning, and you cover all you need to know Hundreds of photos, figures, and tables present information in a visually compelling full-color design Practical Tech Tips provide real-world IT tech support knowledge Soft Skills best-practice advice and team-building activities in every chapter cover key tools and skills for becoming a professional, customer-friendly technician Review Questions—including true/false, multiple choice, matching, fill-in-the-blank, and open-ended questions—carefully assess your knowledge of each learning objective Thought-provoking activities help students apply and reinforce chapter content, and allow instructors to “flip” the classroom if they choose Key Terms identify exam words and phrases associated with each topic Detailed Glossary clearly defines every key term Dozens of Critical Thinking Activities take you beyond the facts to deeper understanding Chapter Summaries recap key concepts for more efficient studying Certification Exam Tips provide insight into the certification exam and preparation process

MARITIME LOGISTICS

A GUIDE TO CONTEMPORARY SHIPPING AND PORT MANAGEMENT

Kogan Page Publishers Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. At the cutting edge in its assessment of the industry, Maritime Logistics covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, Maritime Logistics provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more.

REVIEW OF MARITIME TRANSPORT 2020

This series contains the decisions of the Court in both the English and French texts.

PC MAG

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

THE FUTURE OF IDEAS

THE FATE OF THE COMMONS IN A CONNECTED WORLD

Vintage Explores the meaning of intellectual property in the new high-tech digital age, addressing the legal, social, and economic factors at work and provides a thought-provoking argument that those qualities that have made the Internet a dynamic force for creativity, freedom, and innovation could destroy the Internet's potential. Reprint. 25,000 first printing.

PC MAG

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

REFLOW SOLDERING PROCESSES AND TROUBLESHOOTING

SMT, BGA, CSP, AND FLIP CHIP TECHNOLOGIES

Newnes Focused on technological innovations in the field of electronics packaging and production, this book elucidates the changes in reflow soldering processes, its impact on defect mechanisms, and, accordingly, the troubleshooting techniques during these processes in a variety of board types. Geared toward electronics manufacturing process engineers, design engineers, as well as students in process engineering classes, Reflow Soldering Processes and Troubleshooting will be a strong contender in the continuing skill development market for manufacturing personnel. Written using a very practical, hands-on approach, Reflow Soldering Processes and Troubleshooting provides the means for engineers to increase their understanding of the principles of soldering, flux, and solder paste technology. The author facilitates learning about other essential topics, such as area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and rework process,--and provides an increased understanding of the reliability failure modes of soldered SMT components. With cost effectiveness foremost in mind, this book is designed to troubleshoot errors or problems before boards go into the manufacturing process, saving time and money on the front end. The author's vast expertise and knowledge ensure that coverage of topics is expertly researched, written, and organized to best meet the needs of manufacturing process engineers, students, practitioners, and anyone with a desire to learn more about reflow soldering processes. Comprehensive and indispensable, this book will prove a perfect training and reference tool that readers will find invaluable. Provides engineers the cutting-edge technology in a rapidly changing field Offers in-depth coverage of the principles of soldering, flux, solder paste technology, area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and the rework process

ANNUAL REVIEW OF INTELLECTUAL PROPERTY LAW DEVELOPMENTS 2009

American Bar Association This book provides a thoughtful and balanced treatment of key legal developments in the courts, agencies, and legislatures in every area of IP law. The 2009 edition reports on nearly 200 top IP legal developments, including: In re Volkswagen of America, Inc.; In re TS Tech USA Corp.;Tafas v. Doll;Broadcom v. Qualcomm;In re Bose Corp.;Elsevier v. Muchnick; and Salinger v. Colting

BICMOS BUS INTERFACE LOGIC

DATA BOOK

WORLD INVESTMENT REPORT 2020

INTERNATIONAL PRODUCTION BEYOND THE PANDEMIC

United Nations The 30th edition of the World Investment Report looks at the prospects for foreign direct investment and international production during and beyond the global crisis triggered by the COVID-19 (coronavirus) pandemic. The Report not only projects the immediate impact of the crisis on investment flows, but also assesses how it could affect a long-term structural transformation of international production. The theme chapter of the Report reviews the evolution of international production networks over the past three decades and examines the configuration of these networks today. It then projects likely course changes for the next decade due to the combined effects of the pandemic and pre-existing megatrends, including the new industrial revolution, the sustainability imperative and the retreat of laissez faire policies. The system of international production underpins the economic growth and development prospects of most countries around the world. Governments worldwide will need to adapt their investment and development strategies to a changing international production landscape. At the request of the UN General Assembly, the Report has added a dedicated section on investment in the Sustainable Development Goals, to review global progress and propose possible courses of action.

MODEL CHECKING, SECOND EDITION

MIT Press An expanded and updated edition of a comprehensive presentation of the theory and practice of model checking, a technology that automates the analysis of complex systems. Model checking is a verification technology that provides an algorithmic means of determining whether an abstract model—representing, for example, a hardware or software design—satisfies a formal specification expressed as a temporal logic formula. If the specification is not satisfied, the method identifies a counterexample execution that shows the source of the problem. Today, many major hardware and software companies use model checking in practice, for verification of VLSI circuits, communication protocols, software device drivers, real-time embedded systems, and security algorithms. This book offers a comprehensive presentation of the theory and practice of model checking, covering the foundations of the key algorithms in depth. The field of model checking has grown dramatically since the publication of the first edition in 1999, and this second edition reflects the advances in the field. Reorganized, expanded, and updated, the new edition retains the focus on the foundations of temporal logic model while offering new chapters that cover topics that did not exist in 1999: propositional satisfiability, SAT-based model checking, counterexample-guided abstraction refinement, and software model checking. The book serves as an introduction to the field suitable for classroom use and as an essential guide for researchers.

A PRACTICAL GUIDE TO SENTIMENT ANALYSIS

Springer Sentiment analysis research has been started long back and recently it is one of the demanding research topics. Research activities on Sentiment Analysis in natural language texts and other media are gaining ground with full swing. But, till date, no concise set of factors has been yet defined that really affects how writers' sentiment i.e., broadly human sentiment is expressed, perceived, recognized, processed, and interpreted in natural languages. The existing reported solutions or the available systems are still far from perfect or fail to meet the satisfaction level of the end users. The reasons may be that there are dozens of conceptual rules that govern sentiment and even there are possibly unlimited clues that can convey these concepts from realization to practical implementation. Therefore, the main aim of this book is to provide a feasible research platform to our ambitious researchers towards developing the practical solutions that will be indeed beneficial for our society, business and future researches as well.

COMPTIA A+ 220-901 AND 220-902 CERT GUIDE

Pearson It Certification Issued with activation code for two practice exams and other tools.

THE CONTENT ANALYSIS GUIDEBOOK

SAGE Content analysis is one of the most important but complex research methodologies in the social sciences. In this thoroughly updated Second Edition of The Content Analysis Guidebook, author Kimberly Neuendorf provides an accessible core text for upper-level undergraduates and graduate students across the social sciences. Comprising step-by-step instructions and practical advice, this text unravels the complicated aspects of content analysis.

EXPERIMENTAL MECHANICS OF SOLIDS

John Wiley & Sons Experimental solid mechanics is the study of materials to determine their physical properties. This study might include performing a stress analysis or measuring the extent of displacement, shape, strain and stress which a material suffers under controlled conditions. In the last few years there have been remarkable developments in experimental techniques that measure shape, displacement and strains and these sorts of experiments are increasingly conducted using computational techniques. Experimental Mechanics of Solids is a comprehensive introduction to the topics, technologies and methods of experimental mechanics of solids. It begins by establishing the fundamentals of continuum mechanics, explaining key areas such as the equations used, stresses and strains, and two and three dimensional problems. Having laid down the foundations of the topic, the book then moves on to look at specific techniques and technologies with emphasis on the most recent developments such as optics and image processing. Most of the current computational methods, as well as practical ones, are included to ensure that the book provides information essential to the reader in practical or research applications. Key features: Presents widely used and accepted methodologies that are based on research and development work of the lead author Systematically works through the topics and theories of experimental mechanics including detailed treatments of the Moire, Speckle and holographic optical methods Includes illustrations and diagrams to illuminate the topic clearly for the reader Provides a comprehensive introduction to the topic, and also acts as a quick reference guide This comprehensive book forms an invaluable resource for graduate students and is also a point of reference for researchers and practitioners in structural and materials engineering.

ATOMIC LAYER DEPOSITION FOR SEMICONDUCTORS

Springer Science & Business Media Offering thorough coverage of atomic layer deposition (ALD), this book moves from basic chemistry of ALD and modeling of processes to examine ALD in memory, logic devices and machines. Reviews history, operating principles and ALD processes for each device.

TEXTBOOK OF PEDIATRIC GASTROENTEROLOGY, HEPATOLOGY AND NUTRITION

A COMPREHENSIVE GUIDE TO PRACTICE

Springer This textbook provides a comprehensive and state-of-the-art overview of the major issues specific to the field of pediatric gastroenterology, hepatology, and nutrition. The first part of the book, Gastroenterology and Nutrition, presents in a systematic way the overall scope of issues encountered by children (newborn to teenagers) suffering from disorders of the gastrointestinal tract, pancreas and/or presenting nutritional issues. These chapters are structured in logical sections to facilitate consultation and include major topics ranging from congenital disorders to gastrointestinal problems of the newborn, infectious diseases of the gastrointestinal tract, and approach to nutritional problems in the various pediatric ages. The second part of the book, Hepatology, is articulated in a series of chapters which present a comprehensive review of congenital and acquired disorders of the biliary tract and liver. This section also includes a critical analysis of available diagnostic and therapeutic procedures and future perspectives. Written by experts in the field, Textbook of Pediatric Gastroenterology, Hepatology and Nutrition: A Comprehensive Guide to Practice constitutes a much needed, innovative resource combining updated, reliable and comprehensive information with agile consultation for a streamlined approach to the care of children with such disorders.

OLED MICRODISPLAYS

TECHNOLOGY AND APPLICATIONS

John Wiley & Sons Microdisplays are displays requiring optical magnification and OLEDs (Organic Light-Emitting Diode) are self-emitting displays where each pixel includes a LED made of organic material, in general composed of small-molecule organic material. This title reviews in detail how OLED microdisplays are made as well as how they are used. All aspects from theory to application will be addressed: basic principles, display design, display fabrication, operation and performances, present and future applications. The book will be useful to anyone interested in this rapidly developing field, such as students or researchers, industry professionals (engineers, project leaders) in the field of display development/fabrication and display end-users.

THE CAMBRIDGE HANDBOOK OF THE LAW OF THE SHARING ECONOMY

Cambridge University Press This Handbook grapples conceptually and practically with what the sharing economy - which includes entities ranging from large for-profit firms like Airbnb, Uber, Lyft, Taskrabbit, and Upwork to smaller, non-profit collaborative initiatives - means for law, and how law, in turn, is shaping critical aspects of the sharing economy. Featuring a diverse set of contributors from many academic disciplines and countries, the book compiles the most important, up-to-date research on the regulation of the sharing economy. The first part surveys the nature of the sharing economy, explores the central challenge of balancing innovation and regulatory concerns, and examines the institutions confronting these regulatory challenges, and the second part turns to a series of specific regulatory domains, including labor and employment law, consumer protection, tax, and civil rights. This groundbreaking work should be read by anyone interested in the dynamic relationship between law and the sharing economy.

ORTHOGERIATRICS

Springer Nature This new open access edition supported by the Fragility Fracture Network aims at giving the widest possible dissemination on fragility fracture (especially hip fracture) management and notably in countries where this expertise is sorely needed. It has been extensively revised and updated by the experts of this network to provide a unique and reliable content in one single volume. Throughout the book, attention is given to the difficult question of how to provide best practice in countries where the discipline of geriatric medicine is not well established and resources for secondary prevention are scarce. The revised and updated chapters on the epidemiology of hip fractures, osteoporosis, sarcopenia, surgery, anaesthesia, medical management of frailty, peri-operative complications, rehabilitation and nursing are supplemented by six new chapters. These include an overview of the multidisciplinary approach to fragility fractures and new contributions on pre-hospital care, treatment in the emergency room, falls prevention, nutrition and

systems for audit. The reader will have an exhaustive overview and will gain essential, practical knowledge on how best to manage fractures in elderly patients and how to develop clinical systems that do so reliably.

PC MAGAZINE

THE INDEPENDENT GUIDE TO IBM-STANDARD PERSONAL COMPUTING

THE ESSENTIAL GUIDE TO THE BUSINESS & LAW OF ESPORTS & PROFESSIONAL VIDEO GAMING

CRC Press "As esports has grown, the need for professional legal representation has grown with it. Justin's Essential Guide to the Business & Law of Esports & Professional Video Gaming provides a great baseline and will help prevent the legal horror stories of esports in the past." Mitch Reames, AdWeek and Esports Insider "Justin's exploration of the business and law side of the esports sector fills a gap of knowledge that is an absolute necessity in truly understanding the esports space." Kevin Hitt, The Esports Observer The Essential Guide to the Business & Law of Esports & Professional Video Gaming covers everything you need to know about the past, present, and future of esports and professional video gaming. The book is written by one of the foremost attorneys and business practitioners in today's esports and professional gaming scene, Justin M. Jacobson, Esq. This guide is meant to provide you with an in-depth look at the business and legal matters associated with the esports world. • Includes coverage of the stakeholders in the esports business "ecosystem," including the talent, the teams, the publishers, and the event organizers. • Explores various legal fields involved with esports, including intellectual property, employment and player unions, business investments and tax "write-offs," immigration and visas, event operation tips, social media and on-stream promotions, and much more. • The most current book on the market, with actual contract provisions modeled on existing major esports player, coach, shoutcaster, and sponsorship agreements. About the Author Justin M. Jacobson, Esq. is an entertainment and esports attorney located in New York City. For the last decade, he has worked with professional athletes, musicians, producers, DJs, record labels, fashion designers, as well as professional gamers, streamers, coaches, on-air talent, and esports organizations. He assists these creative individuals with their contract, copyright, trademark, immigration, tax, and related business, marketing, and legal issues. He is a frequent contributor to many industry publications and has been featured on a variety of entertainment, music, and esports publications and podcasts, including Business Insider, The Esports Observer, Esports Insider, Tunecore, and Sport Techie. Justin has positioned himself as a top esports business professional working with talent in a variety of franchise leagues including the Overwatch League, Overwatch Contenders, and Call of Duty Pro League as well as in many popular competitive titles such as Fortnite, CS:GO, Gears of War, Halo, Super Smash Brothers, Rainbow 6, PUBG, Madden, and FIFA and mobile games such as Brawlhalla, Clash of Clans, and Call of Duty mobile. Previously, he worked with various esports talent agencies as well as in an official capacity on behalf of several esports teams and brands.

MEASUREMENT, INSTRUMENTATION, AND SENSORS HANDBOOK

SPATIAL, MECHANICAL, THERMAL, AND RADIATION MEASUREMENT

CRC Press The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal, and Radiation Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 96 existing chapters Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications.

BIOENGINEERING AND BIOMEDICAL SIGNAL AND IMAGE PROCESSING

FIRST INTERNATIONAL CONFERENCE, BIOMESIP 2021, MELONERAS, GRAN CANARIA, SPAIN, JULY 19-21, 2021, PROCEEDINGS

Springer Nature This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

UNESCO SCIENCE REPORT

THE RACE AGAINST TIME FOR SMARTER DEVELOPMENT

UNESCO Publishing

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, SMART GRID AND SMART CITY APPLICATIONS

AISGSC 2019

Springer Nature Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

WIRELESS SENSOR NETWORKS

TECHNOLOGY, PROTOCOLS, AND APPLICATIONS

John Wiley & Sons Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

CURRICULUM LEADERSHIP

STRATEGIES FOR DEVELOPMENT AND IMPLEMENTATION

SAGE Curriculum Leadership: Strategies for Development and Implementation, Third Edition is a one-of-a-kind resource written for educational leaders, teachers, and administrators. Responding to the need for globally connected classrooms and innovative leadership, this unique text provides a rich and inclusive foundation of curriculum. The authors draw upon a wide range of research and experience to provide readers with creative, up-to-date curriculum strategies and ideas. In sharing innovative programs, learning experiences, and new approaches, they build a solid connection for curriculum development from theory to practice, helping future leaders in education meet the global challenges of our time.

HANDBOOK OF PHOTOVOLTAIC SILICON

"Updated content will continue to be published as 'Living Reference Works'"--Publisher.

ACADEMIC E-BOOKS

PUBLISHERS, LIBRARIANS, AND USERS

Purdue University Press E-Books in Academic Libraries: Stepping Up to the Challenge provides readers with a view of the changing and emerging roles of electronic books in higher education. The three main sections contain contributions by experts in the publisher/vendor arena, as well as by librarians who report on both the challenges of offering and managing e-books and on the issues surrounding patron use of e-books. The case study section offers perspectives from seven different sizes and types of libraries whose librarians describe innovative and thought-provoking projects involving e-books. Read about perspectives on e-books from organizations as diverse as a commercial publisher and an association press. Learn about the viewpoint of a jobber. Find out about the e-book challenges facing librarians, such as the quest to control costs in the patron-driven acquisitions (PDA) model, how to solve the dilemma of resource sharing with e-books, and how to manage PDA in the consortial environment. See what patron use of e-books reveals about reading habits and disciplinary differences. Finally, in the case study section, discover how to promote scholarly e-books, how to manage an e-reader checkout program, and how one library replaced most of its print collection with e-books. These and other examples illustrate how innovative librarians use e-books to enhance users' experiences with scholarly works.

MICRO- AND NANOBUBBLES

FUNDAMENTALS AND APPLICATIONS

CRC Press Microbubbles and nanobubbles have several characteristics that are comparable with millimeter- and centimeter-sized bubbles. These characteristics are their small size, which results in large surface area and high bioactivity, low rising velocity, decreased friction drag, high internal pressure, large gas dissolution capacity, negatively charged surface, and ability to be crushed and form free radicals. Microbubbles and nanobubbles have found applications in a variety of fields such as engineering, agriculture, environment, food, and medicine. Microbubbles have been successfully used in aquacultures of oysters in Hiroshima, scallops in Hokkaido, and pearls in Mie Prefecture, Japan. This field has shown a strong potential for growth. This book comprehensively discusses microbubbles and nanobubbles and their application in aquaculture, environment, engineering, medicine, stock raising, agriculture, and marine industry. It presents their potential as a new technology that can be utilized globally.

STRUCTURED COMPUTER ORGANIZATION

TECHNOLOGY TRANSFER AND INNOVATION FOR LOW-CARBON DEVELOPMENT

International Development in F Technology Transfer and Innovation for Low-Carbon Development

LCA OF AN ECOLABELED NOTEBOOK : CONSIDERATION OF SOCIAL AND ENVIRONMENTAL IMPACTS ALONG THE ENTIRE LIFE CYCLE

Lulu.com This study investigates social and environmental impacts caused by an ecolabeled notebook along its entire life cycle. In order to analyse the divers effects of the laptop, a

social life cycle assessment and an environmental life cycle assessment were performed in parallel. Both assessments together provide a holistic overview of positive and negative impacts in regard to social and environmental sustainability. This book contains the complete final report written by GreenDeltaTC on behalf of the Belgian Federal Public Planning Service Sustainable Development. It comprises the methodological background, the social inventory, process modifications with regard to the environmental inventory, and detailed results of the impact assessment phase. Further, a newly developed social impact assessment method is presented and applied. In addition, recommendations on company and policy level were derived.

AUTOPHAGY

CRC Press Starting in the early 1970s, a type of programmed cell death called apoptosis began to receive attention. Over the next three decades, research in this area continued at an accelerated rate. In the early 1990s, a second type of programmed cell death, autophagy, came into focus. Autophagy has been studied in mammalian cells for many years. The recent

WORLD INVESTMENT REPORT 2019

SPECIAL ECONOMIC ZONES

United Nations The 2019 edition of the World Investment Report focuses on special economic zones (SEZs) which are widely used across most developing and many developed economies. Although the performance of many zones remains below expectations, the rate of establishment of new zones is accelerating as governments increasingly compete for internationally mobile industrial activity. Policymakers face not only the traditional challenges to making SEZs succeed, including the need for strategic focus, sound governance models, and effective investment promotion tools, but also new challenges brought about by the sustainable development imperative, the new industrial revolution, and changing patterns of international production. The Report explores the place of SEZs in today's global investment landscape and provides guidance for policymakers on how to make SEZs work for sustainable development. It presents international investment trends and prospects at global, regional and national levels, as well as the evolution of international production and global value chains. It analyses the latest developments in new policy measures for investment promotion, facilitation and regulation around the world, as well as updates on investment treaties, their reform and investment dispute settlement cases.

BLUETOOTH SECURITY

Artech House This first-of-its-kind book, from expert authors actively contributing to the evolution of Bluetooth specifications, provides an overview and detailed descriptions of all the security functions and features of this standard's latest core release. After categorizing all the security issues involved in ad hoc networking, this hands-on volume shows you how to design a highly secure Bluetooth system and implement security enhancements. The book also helps you fully understand the main security risks involved with introducing Bluetooth-based communications in your organization

NANOMETER CMOS ICS

FROM BASICS TO ASICS

Springer This textbook provides a comprehensive, fully-updated introduction to the essentials of nanometer CMOS integrated circuits. It includes aspects of scaling to even beyond 12nm CMOS technologies and designs. It clearly describes the fundamental CMOS operating principles and presents substantial insight into the various aspects of design implementation and application. Coverage includes all associated disciplines of nanometer CMOS ICs, including physics, lithography, technology, design, memories, VLSI, power consumption, variability, reliability and signal integrity, testing, yield, failure analysis, packaging, scaling trends and road blocks. The text is based upon in-house Philips, NXP Semiconductors, Applied Materials, ASML, IMEC, ST-Ericsson, TSMC, etc., courseware, which, to date, has been completed by more than 4500 engineers working in a large variety of related disciplines: architecture, design, test, fabrication process, packaging, failure analysis and software.