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The Mathematical Theory of Optimal Processes
Publication Manual of the American Psychological Association
The CSE Manual for Authors, Editors, and Publishers
Principles and Applications for Fixed and Wireless Communications
Effective Communication of Scientific Information
Wiley Encyclopedia of Telecommunications, 5 Volume Set
MLA Style Manual and Guide to Scholarly Publishing
Automata Studies
With Formulas, Graphs, and Mathematical Tables
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Mems for Biomedical Applications
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A Manual for Writers of Dissertations
Business Processes and Information Technology
Systems, Modulation, and Noise
Voice and Audio Compression for Wireless Communications
Article 2, section 2, through article 7

LAM HIGGINS

New Research Perspectives Oxford University Press
"Presents a solid framework for understanding existing work and planning future research."--Cover.
Software Architecture in Practice McGraw-Hill Science, Engineering & Mathematics
The application of Micro Electro Mechanical Systems (MEMS) in the biomedical field is leading to a new generation of medical devices. MEMS for biomedical applications reviews the wealth of recent research on fabrication technologies and applications of this exciting technology. The book is divided into four parts: Part one introduces the fundamentals of MEMS for biomedical applications, exploring the microfabrication of polymers and reviewing sensor and actuator mechanisms. Part two describes applications of MEMS for biomedical sensing and diagnostic applications. MEMS for in vivo sensing and electrical impedance spectroscopy are investigated, along with ultrasonic transducers, and lab-on-chip devices. MEMS for tissue engineering and clinical applications are the focus of part three, which considers cell culture and tissue scaffolding devices, BioMEMS for drug delivery and minimally invasive medical procedures. Finally, part four reviews emerging biomedical applications of MEMS, from implantable neuroprobes and ocular implants to cellular microinjection and hybrid MEMS. With its distinguished editors and international team of expert contributors, MEMS for biomedical applications provides an authoritative review for scientists and manufacturers involved in the design and development of medical devices as well as clinicians using this important technology. Reviews the wealth of recent research on fabrication technologies and applications of Micro Electro Mechanical Systems (MEMS) in the biomedical field Introduces the fundamentals of MEMS for biomedical applications, exploring the microfabrication of polymers and reviewing sensor and actuator mechanisms Considers MEMS for biomedical sensing and diagnostic applications, along with MEMS for in vivo sensing and electrical impedance spectroscopy
Style and Ethics of Communication in Science and Engineering Springer Science & Business Media
Scientists and engineers seek to discover and disseminate knowledge so that it can be used to improve the human condition. Style and Ethics of Communication in Science and Engineering serves as a valuable aid in this pursuit-it can be used as a textbook for undergraduate or graduate courses on technical communication and ethics, a reference book for senior design courses, or a handbook for young investigators and beginning faculty members. In addition to presenting methods for writing clearly and concisely and improving oral presentations, this compact book provides practical guidelines for preparing theses, dissertations, journal papers for publication, and proposals for research funding. Issues of authorship, peer review, plagiarism, recordkeeping, and copyright are addressed in detail, and case studies of research misconduct are presented to highlight the need for proactive attention to scientific integrity. Ample exercises cause the reader to stop and think. Style and Ethics of Communication in Science and Engineering thus motivates the reader to develop an effective, individual style of communication and a personal commitment to integrity, each of which are essential to success in the workplace. Table of Contents: Motivation / Writing Well / Scientific Publications / Proposals and Grant Applications / Oral Communication / Authorship / Recordkeeping / Ownership of Ideas, Data, and Publications
How to Write and Illustrate a Scientific Paper ASM International

Expanded and updated from the Electronic Resources section, The APA style guide to electronic resources outlines for students and writers the key elements with numerous examples. Dissertations and theses; bibliographies; curriculum and course material; reference materials, including Wiki; gray literature, such as conference hearings, presentation slides, and policy briefs; general interest media and alternative presses such as audio podcasts; and online communities, such as Weblog posts and video Weblog posts.

Robot Vision Elsevier

With "Microsoft Office 97 Visual Basic Programmer's Guide", readers will learn to create concise, lean, efficient code with the powerful programming language now found throughout Microsoft Office applications--Visual Basic for Applications.

Electric Power Applications of Fuzzy Systems Elsevier

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Engineers' Guide to Technical Writing Walter de Gruyter GmbH & Co KG

This book offers an introduction to applications of fuzzy system theory to selected areas of electric power engineering. It presents theoretical background material from a practical point of view and then explores a number of applications of fuzzy systems. Most recently, there has been a tremendous surge in research and application articles on this subject. Until now though, there have been no books that put together a practical guide to the fundamentals and applications aspects. Electric Power Applications of Fuzzy Systems presents, under one cover, original contributions by authors who have pioneered in the application of fuzzy system theory to the electric power engineering field. Each chapter contains both an introduction to and a state-of-the-art review of each application area.

Informatics and the Digital Society IEEE

This book is a much-needed sourcebook to support library staff in the delivery of information literacy teaching, by providing practical guidance on tried and tested ideas and techniques for sessions. Full of hints and tips grounded in learning theory, it is a practical reference tool designed to be dipped into as needed when planning teaching and training. Where applicable the activities are mapped to models of information literacy, with guidance on adapting ideas for different levels and contexts.

Microsoft Office 97 Visual Basic Programmer's Guide Courier Corporation

The essential guide to solving algorithmic and networking problems in commercial computer games, revised and extended Algorithms and Networking for Computer Games, Second Edition is written from the perspective of the computer scientist. Combining algorithmic knowledge and game-related problems, it explores the most common problems encountered in game programing. The first part of the book presents practical algorithms for solving “classical” topics, such as random numbers, procedural generation, tournaments, group formations and game trees. The authors also focus on how to find a path in, create the terrain of, and make decisions in the game world. The second part introduces networking related problems in computer games, focusing on four key questions: how to hide the inherent communication delay, how to best exploit limited network resources, how to cope with cheating and how to measure the on-line game data. Thoroughly revised, updated, and expanded to reflect the many constituent changes occurring in the commercial gaming industry since the original, this Second Edition, like the first, is a timely, comprehensive resource offering deeper algorithmic insight and more extensive coverage of game-specific networking problems than ordinarily encountered in game development books. Algorithms and Networking for Computer Games, Second Edition: Provides algorithmic solutions in pseudo-code format, which emphasises the idea behind the solution, and can easily be written into a programming language of choice Features a section on the Synthetic player, covering decision-making, influence maps, finite-state machines, flocking, fuzzy sets, and probabilistic reasoning and noise generation Contains in-depth treatment of network communication, including dead-reckoning, local perception filters, cheating prevention and on-line metrics Now includes 73 ready-to-use algorithms and 247 illustrative exercises Algorithms and Networking for Computer Games, Second Edition is a must-have resource for advanced undergraduate and graduate students taking computer game related courses, postgraduate researchers in game-related topics, and developers interested in deepening their knowledge of the theoretical underpinnings of computer games and in learning new approaches to game design and programming.

Multimedia Security Technologies for Digital Rights Management World Bank Publications

This text describes the development of astronomy in the Extreme Ultraviolet (EUV) wavelength range, from the first rocket-based experiments in the late 1960s through to later satellite missions. Discussions of the results from important space projects are followed by an analysis of the contributions made by EUV astronomy to the study of specific groups of astronomical objects. Within this framework, the book provides detailed material on the tools of EUV astronomy, dealing with the instrumentation, observational techniques, and modelling tools for the interpretation of data. Prospects for future EUV missions are discussed, and a catalogue of the known EUV sources is included. This book will be of great value to graduate students and researchers. It gives a complete overview of Extreme Ultraviolet astronomy.

A Guide to Teaching Information Literacy Wiley-Interscience

The focus of this text is to teach engineering students the skill of technical writing. The book is unique in that it gets to the point, uses practical outlines throughout, and actually shows students how to produce the most common technical documents step-by-step. It also employs a laid-back approach that is focused on providing real-world information in a straightforward, easy-to-understand way. This book is part of McGraw-Hill's Best (Basic Engineering Series and Tools) Series, which consists of modularized textbooks covering virtually every topic and speciality likely to be presented in an introductory engineering course. These affordable Best modules are easily combined with each other to construct the ideal first-year course. Best texts are also easily customized to create a single text via both traditional and online customization options.

Information and Communication Technologies Cambridge University Press

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Algorithms and Networking for Computer Games Oxford University Press

This dictionary provides thousands of terms related to the Web, software technology, jargon, e-commerce, security, and the technical and organizational infrastructure of the Internet. There are also useful links to relevant websites.

Electrical Engineering 101 Routledge

An extensive summary of mathematical functions that occur in physical and engineering problems

A Dictionary of the Internet Orange Groove Books

Security is a major concern in an increasingly multimedia-defined universe where the Internet serves as an indispensable resource for information and entertainment. Digital Rights Management (DRM) is the technology by which network systems protect and provide access to critical and time-sensitive copyrighted material and/or personal information. This book equips savvy technology professionals and their aspiring collegiate protégés with the latest technologies, strategies and methodologies needed to successfully thwart off those who thrive on security holes and weaknesses. Filled with sample application scenarios and algorithms, this book provides an in-depth examination of present and future field technologies including encryption, authentication, copy control, tagging, tracing, conditional access and media identification. The authors present a diversified blend of theory and practice and focus on the constantly changing developments in multimedia applications thus providing an admirably comprehensive book. * Discusses state-of-the-art multimedia authentication and fingerprinting techniques * Presents several practical methodologies from industry, including broadcast encryption, digital media forensics and 3D mesh watermarking * Focuses on the need for security in multimedia applications found on computer networks, cell phones and emerging mobile computing devices

ACS Style Guide Elsevier

This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic.

Social, Ethical and Cognitive Issues John Wiley & Sons

For a relatively small group of insects, dung beetles have attracted an inordinate amount of scientific interest over the years. This started with the work of the famous French naturalist Jean-Henri Fabre about 100 years ago, but it the work of Gonzalo Halffter of Mexico, and his colleagues, who first placed dung beetles on the scientific map by the publication of two important synthetic works. The first was published in 1966 ("Natural History") and this was followed by another in 1982 ("Nesting and Breeding Behaviour"). A multi-authored book on dung beetle ecology, edited by Ilkka Hanski and Yves Cambefort, was published in 1991. These volumes are long out of print and mostly unavailable. In the 18 years since the last book was published there has been a steady stream of research published on dung beetle phylogeny, biogeography, physiological ecology and conservation, fields that were not, or barely treated in the previous books. The current work synthesises and updates most of the major elements covered in those studies, but introduces several novel sections in a phylogenetic approach to the natural history of dung beetles. The aspects covered, in five sections, are the following: evolution and ecological success of dung beetles; physiological and behavioural ecology of dung beetles; phylogeny of the Scarabaeinae; historical biogeography of the Scarabaeinae and its physical and biotic drivers; and, conservation of dung beetles. The content of the book is balanced in such a way that the information contained in it should be of interest to general entomologists, research specialists on dung beetle natural history, insects systematists, students of entomology, agricultural scientists and insect conservationists.

Scientific Style and Format Pensoft Pub

A Manual for Writers of DissertationsRobot VisionMIT Press

The Mathematical Theory of Optimal Processes Springer

The current, thoroughly revised and updated edition of this approved title, evaluates information sources in the field of technology. It provides the reader not only with information of primary and secondary sources, but also analyses the details of information from all the important technical fields, including environmental technology, biotechnology, aviation and defence, nanotechnology, industrial design, material science, security and health care in the workplace, as well as aspects of the fields of chemistry, electro technology and mechanical engineering. The sources of information presented also contain publications available in printed and electronic form, such as books, journals, electronic magazines, technical reports, dissertations, scientific reports, articles from conferences, meetings and symposiums, patents and patent information, technical standards, products, electronic full text services, abstract and indexing services, bibliographies, reviews, internet sources, reference works and publications of professional associations. Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non-professional

information specialists, who have to provide information about technical issues. Furthermore, this title is of great value to students and people with technical professions.

Publication Manual of the American Psychological Association Morgan & Claypool Publishers

Since the 9.11 attacks in North America and the accession of the Schengen Accord in Europe there has been widespread concern with international borders, the passage of people and the flow of information across borders. States have fundamentally changed the ways in which they police and monitor this mobile population and its personal data. This book brings together leading authorities in the field who have been working on the common problem of policing and surveillance at physical and virtual borders at a time of increased perceived threat. It is concerned with both theoretical and empirical aspects of the ways in which the modern state attempts to control its borders and mobile population. It will be essential reading for students, practitioners, policy makers.