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[Classed Subject Catalog](#) Springer Nature

*Soft Computing Techniques in Solid Waste and Wastewater Management* is a thorough guide to computational solutions for researchers working in solid waste and wastewater management operations. This book covers in-depth analysis of process variables, their effects on overall efficiencies, and optimal conditions and procedures to improve performance using soft computing techniques. These topics coupled with the systematic analyses described will help readers understand various techniques that can be effectively used to achieve the highest performance. In-depth case studies along with discussions on applications of various soft-computing techniques help readers control waste processes and come up with short-term, mid-term and long-term strategies. Waste management is an increasingly important field due to rapidly increasing levels of waste production around the world. Numerous potential solutions for reducing waste production are underway, including applications of machine learning and computational studies on waste management processes. This book details the diverse approaches and techniques in these fields, providing a single source of information researchers and industry practitioners. It is ideal for academics, researchers and engineers in waste management, environmental science, environmental engineering and computing, with relation to environmental science and waste management. - Provides a comprehensive reference on the implementation of soft computing techniques in waste management, drawing together current research and future implications - Includes detailed algorithms used, enabling authors to understand and appreciate potential applications - Presents relevant case studies in solid and wastewater management that show real-world applications of discussed technologies *Army Research and Development* University of Chicago Press

Are sex and gender really two different things? How malleable is gender identity? Do both gender and sex have to be conceptualized as binaries—as having two distinct but complementary categories? Should we emphasize gender differences, or is that the wrong question? When should we call a gender difference “small”? Are women really “nonaggressive” or does that label stem from stereotyping? How does subtle or “modern” sexism work on its targets? Scholarship on these and other gender-related questions has exploded in recent years. Hilary Lips synthesizes that research for students in an accessible and readable way. Concepts on sex and gender are presented with the social context in which they were developed. As in previous editions, Lips takes a multicultural approach, discussing the gender experiences of people from a wide range of races, cultures, socioeconomic statuses, and gender and sexual identities. She emphasizes empirical research but takes a critical approach to that research.

*U.S. Government Research Reports* ASTM International

This book presents the papers included in the proceedings of the 5th International Conference of Reliable Information and Communication Technology 2020 (IRICT 2020) that was held virtually on December 21 – 22, 2020. The main theme of the book is “ Innovative Systems for Intelligent Health Informatics ” . A total of 140 papers were submitted to the conference, but only 111 papers were published in this book. The book presents several hot research topics which include health informatics, bioinformatics, information retrieval, artificial intelligence, soft computing, data science, big data analytics, Internet of things (IoT), intelligent communication systems, information security, information systems, and software engineering.

*Marriage and Cohabitation* Graphic Communications Group

Just as sushi can be made with any kind of rice, so bearings can be made with any kind of steel, but the discerning can tell the difference, and will not be back for seconds. Here 34 papers from an international symposium in Phoenix look at developments in the process for making steel suitable for b

[Rules of Thumb for Chemical Engineers](#) SAGE

Fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids \* Hundreds of common sense techniques, shortcuts, and calculations.

*Graphic Sports* IGI Global

Evaluation research can assess the value and effectiveness of interventions and innovations involving people. While this has often been on a grand scale, this book focuses on small-scale projects carried out by an individual or small group, typically lasting for weeks or at most a few months, at a local rather than national level. Using limited jargon and featuring integrated, real-world examples, this second edition offers a clear, accessible background to evaluation and prepares you to undertake your own small-scale evaluation research project. Key features include discussion of: Different approaches to evaluation and how to choose between them The advantages and disadvantages of randomized controlled trials (RCTs) Realist evaluation and its increasing importance The centrality of ethical and political issues The influence and opportunity of the Internet Tightly focused on the realities of carrying out small-scale evaluation, Small-Scale Evaluation is a highly practical guide covering the needs of both social scientists and others without this background. Colin Robson is an Emeritus Professor in the School of Human & Health Sciences at the University of Huddersfield.

*Directory of Financial AIDS for Women, 2005–2007* Springer

The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field of information sources published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources—directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research

[Handbook of Occupational Keywords](#) Springer Nature

Robotics plays a pivotal role in many domains such as industry and medicine. Robots allow for increased safety, production rates, accuracy, and quality; however, robots must be well designed and controlled to achieve the required performance. The design and control of robotics involve many varying disciplines, such as mechanical engineering, electronics, and automation, and must be further studied to ensure the technology is utilized appropriately. Design and Control Advances in Robotics considers the most recent applications and design advances in robotics and highlights the latest developments and applications within the field of robotics. Covering key topics such as deep learning, machine learning, programming, automation, and control advances, this reference work is ideal for engineers, computer scientists, industry professionals, academicians, practitioners, scholars, researchers, instructors, and students.

[Proceedings of Seventh International Congress on Information and Communication Technology](#) Trans Tech Publications Ltd

If you are looking for financial aid for women, or know women who are, then this is the directory for you. Here, in one place, are descriptions of nearly 1,500 scholarships, fellowships, loans, forgivable loans, grants, awards, and internships available

specifically for women. This funding is open to women at any level (high school through postdoctoral and professional) for study, research, travel, training, career development, or innovative efforts. Each of these funding opportunities is completely described, including contact (address, telephone numbers, e-mail addresses, and web sites), purpose, eligibility, financial data, duration, special features, limitations, number awarded, and deadline date. Plus, the directory provides a set of indexes that let you search the listings by specific subject, residency, where the money can be spent, program title, sponsoring organization, and even deadline date. There's no other directory like this for women. It has become the standard in the field! That's why School Library Journal called it "the cream of the crop," College Spotlight concluded "nobody does a better job," Small Press labels it "the quintessential acquisition," American Reference Books Annual called it "a must-purchase guide," and Reference Books Bulletin pronounced it "the only current source of information on financial aid specifically for women."

*Big Data Analytics for Cyber-Physical Systems* John Wiley & Sons

Save time with this collection of straightforward, common-sense techniques that provide quick, accurate solutions to your engineering problems. Rules of Thumb for Mechanical Engineers assembles hundreds of shortcuts, calculations, practical "how-to" methods, and concise background reviews into one convenient volume. Whether you're concerned with design, selection, or performance, you'll find fast, accurate answers here - all without wading through pages of theory. Experts from all engineering disciplines have packed this book's sixteen chapters with design criteria and practical tips. You'll find easy-to-read descriptions on fluids, heat transfer, thermodynamics, seals, pumps, and compressors, drivers, gears, and bearings, as well as piping and pressure vessels. Also covers tribology, vibrations, materials, stress and fatigue, instrumentation, and engineering economics.\* Save time with this collection of straightforward, common-sense techniques that provide quick, accurate solutions to your engineering problems. \* Hundreds of shortcuts, calculations and practical "how-to" methods in one convenient volume. \* Fast, accurate answers to design, selection, or performance issues.

[Educational Programs and Facilities in Nuclear Science and Engineering](#) Policy Press

Published by the American Geophysical Union as part of the Special Publications Series. Opening Space Research: Dreams, Technology, and Scientific Discovery is George Ludwig's account of the early development of space-based electromagnetic physics, with a focus on the first U.S. space launches and the discovery of the Van Allen radiation belts. Narrated by the person who developed many of the instruments for the early Explorer spacecraft during the 1950s and participated directly in the scientific research, it draws heavily upon the author's voluminous collection of laboratory notes and other papers, upon the Van Allen archive, and upon a wide array of other sources. This book presents very detailed discussions of historic events in a highly readable (semitechnical), first-person form. More than that, though, Opening Space Research brings to the forefront the entire team of scientists who made these accomplishments possible, providing an extensive index of names to enhance and complete the historical record. Authoritative and unique, this book will be of interest to space scientists, science historians,

and anyone interested in space history and the first U.S. space launches. **Astronautics and Aeronautics, 1979-1984: A Chronology** Elsevier High-altitude regions offer several challenges for the management of surface and subsurface water resources, due to their unique weather patterns, geology and topography. In this survey of mountain region hydrology, the assessment, dynamics and modeling of glaciers, rivers and lakes is explained in detail, and the impact of climate change and anthropogenic activities on the mountain ecosystem is analyzed. Challenges for the sustainable management of water resources are discussed, focusing on water yield, water quality and the risk of flash floods. Numerous case studies from the Himalayas are included, which serve as a model region for both medium-high and very high altitude water resources. The final section of the book looks at traditional methods of water resource management and conservation, and their importance for 21st century strategies.

**Degrees Offered** Elsevier

Evaluation in Today's World: Respecting Diversity, Improving Quality, and Promoting Usability covers theoretical and practical issues related to evaluation of programs with an emphasis on viewing evaluation topics through a social justice, diversity, and inclusive perspective.

Opening Space Research Graphic Communications Group

This two-volume set LNICST 280-281 constitutes the post-conference proceedings of the 10th EAI International Conference on Wireless and Satellite Services, WiSATS 2019, held in Harbin, China, in January 2019. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. The 137 full papers were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on machine learning for satellite-terrestrial networks, human-machine interactive sensing, monitoring, and communications, integrated space and onboard networks, intelligent signal processing, wireless communications and networks, vehicular communications and networks, intelligent 5G communication and digital image processing technology, security, reliability and resilience in internet of things, advances in communications and computing for internet of things.

Nanotechnology and Computer Engineering Gulf Professional Publishing

This book highlights research and survey articles dedicated to big data techniques for cyber-physical system (CPS), which addresses the close interactions and feedback controls between cyber components and physical components. The book first discusses some fundamental big data problems and solutions in large scale distributed CPSs. The book then addresses the design and control challenges in multiple CPS domains such as vehicular system, smart city, smart building, and digital microfluidic biochips. This book also presents the recent advances and trends in the maritime simulation system and the flood defence system.

Computational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation Applications Bloomsbury Publishing USA

Shape interrogation is the process of extraction of information from a geometric model. It is a fundamental component of Computer Aided Design and Manufacturing (CAD/CAM) systems. This book provides a bridge between the areas geometric modeling and solid modeling. Apart from the differential geometry topics covered, the entire book is based on the unifying concept of recasting all shape interrogation problems to the solution of a nonlinear system. It provides the mathematical fundamentals as well as algorithms for various shape interrogation methods including nonlinear polynomial solvers, intersection problems, differential geometry of intersection curves, distance functions, curve and surface interrogation, umbilics and lines of curvature, and geodesics.

**Wireless and Satellite Systems** IGI Global

This book gathers selected high-quality research papers presented at the Seventh International Congress on Information and Communication Technology, held at Brunel University, London, on February 21-24, 2022. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of

Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes.

*Astronautics and Aeronautics* John Wiley & Sons

"This book disseminates knowledge on modern information technology applications in air transportation useful to professionals, researchers, and academicians"--Provided by publisher.

*Guide to Information Sources in Engineering* Waveland Press

In an era when half of marriages end in divorce, cohabitation has become more commonplace and those who do get married are doing so at an older age. So why do people marry when they do? And why do some couples choose to cohabit? A team of expert family sociologists examines these timely questions in *Marriage and Cohabitation*, the result of their research over the last decade on the issue of union formation. Situating their argument in the context of the Western world's 500-year history of marriage, the authors reveal what factors encourage marriage and cohabitation in a contemporary society where the end of adolescence is no longer signaled by entry into the marital home. While some people still choose to marry young, others elect to cohabit with varying degrees of commitment or intentions of eventual marriage. The authors' controversial findings suggest that family history, religious affiliation, values, projected education, lifetime earnings, and career aspirations all tip the scales in favor of either cohabitation or marriage. This book lends new insight into young adult relationship patterns and will be of interest to sociologists, historians, and demographers alike.

*The Kenya Education Directory* SAGE Publications

Available open access digitally under CC-BY-NC-ND licence. This book presents emerging themes and future directions in the interdisciplinary field of critical data studies, loosely themed around the notion of shifting response-abilities in a datafied world. In each chapter an interdisciplinary group of scholars discuss a specific theme, ranging from questions around data power and the configuring of data subjects to the intersection of technology and the environment. The book is an invaluable dialogue between disciplines that introduces readers to cutting edge arguments within the field. It will be a key resource for scholars and students who require a guide to this rapidly evolving area of research.