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Energy-Smart Buildings intends to provide a brief research source for building technology and regulations in terms of energy efficiency, as well as discussing fundamental aspects and cutting-edge trends for new buildings and retrofitting the current building stock. Additionally, sources of renewable and sustainable energy production and storage are reviewed, with case studies of such systems on buildings in a cold climate. This volume provides industry professionals, researchers and students with the most updated review on modern building ideas, and renewable energy technologies that can be coupled with them. It is especially valuable for those starting on a new topic of research or coming into the field.

A comprehensive analysis of an environmental tax reform where people are taxed on pollution and the use of natural resources instead of on their income, it looks at the challenges involved in implementing this tax reform across Europe.

This book constitutes the proceedings of the 12th International Conference on Design Science Research in Information Systems and Technology, DESRIST 2017, held in May/June 2017 in Karlsruhe, Germany. The 25 full and 11 short papers presented in this volume were carefully reviewed and selected from 66 full and 19 short papers. The contributions are organized in topical sections named: DSR in business process management; DSR in human computer interaction; DSR in data science and business analytics; DSR in service science; methodological contributions; domain-specific DSR applications; emerging themes and new ideas; and products and prototypes.

The Oil Analysis Handbook is a volume in Coxmoor's Machine & System Condition Monitoring

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Series. Oil is considered as much an integral part of machine as any of its mechanical components and so must perform many vital functions over an extended period. By testing a sample of lubricant it is possible to measure its ability to continue its original function. This book sets out the concepts of oil analysis for the mature professional, the novice and student. A definitive reference, completely updated Published in 1989, the First Edition of this book, originally entitled *Quadrupole Storage Mass Spectrometry*, quickly became the definitive reference in analytical laboratories worldwide. Revised to reflect scientific and technological advances and new applications in the field, the Second Edition includes new chapters covering:

- * New ion trap instruments of high sensitivity
- * Peptide analysis by liquid chromatography/ion trap tandem mass spectrometry
- * Analytical aspects of ion trap mass spectrometry combined with gas chromatography
- * Simulation of ion trajectories in the ion trap

One additional chapter discusses the Rosetta mission, a "comet chaser" that was sent on a ten-year journey in 2004 to study the comet Churyumov-Gerasimenko using, among other instruments, a GC/MS system incorporating a specially designed ion trap mass spectrometer. This comprehensive reference also includes discussions of the history of the quadrupole ion trap, the theory of quadrupole mass spectrometry, the dynamics of ion-trapping chemistry in the quadrupole ion trap, the cylindrical ion trap, miniature traps, and linear ion traps. Complete with conclusions and references, this primer effectively encapsulates the body of knowledge on quadrupole ion trap mass spectrometry. With its concise descriptions of the theory of ion motion and the principles of operation, *Quadrupole Ion Trap Mass Spectrometry, Second Edition* is ideal for new users of quadrupole devices, as well as for scientists, researchers, and graduate and post-doctoral students working in analytical laboratories.

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It is a pleasure to offer you this book containing papers about ICT and education from the World Computer Congress 2006 (WCC 2006), held in Santiago, Chile and sponsored by the International Federation for Information Processing (IFIP). A lot of people worked very hard to make this event happen and to produce this book. The programme committee with IFIP members from around the world issued a call for papers inspiring almost 80 people to submit papers, posters, demonstrations, and workshops to the IFIP TC3 (Technical Committee on Education) sub-conference of WCC 2006. The submitted papers were reviewed by a large group of referees to select the papers to be presented at the conference. What is really amazing is that all these people freely contributed their time and effort to do all this work. The TC3 sub-conference of WCC 2006 has two themes: Informatics Curricula, TEaching Methods and best practice (ICTEM II), and Teaching and Learning with ICT: Theory, Policy and Practice. These themes represent many of the broad range of interests of the Working Groups of IFIP TC3. Two kinds of papers are included in this book: full papers and short papers. Full papers are standard papers that are appropriate for an international conference on ICT and informatics education. Of the 64 full paper submissions, 28 (44%) were accepted. A short paper represents work in progress, opinion, a proposal, work with untested results, or an experience report.

"The 34 papers presented in this book represent our best effort to present a diverse and comprehensive overview of key issues in the management and realization of digitization projects. ... This is, above all, a book written by practitioners for practitioners who together recognize the critical needs and goals in digitization in our industry"--P. x-

xi.

Multithreaded computer architecture has emerged as one of the most promising and exciting avenues for the exploitation of parallelism. This new field represents the confluence of several independent research directions which have united over a common set of issues and techniques. Multithreading draws on recent advances in dataflow, RISC, compiling for fine-grained parallel execution, and dynamic resource management. It offers the hope of dramatic performance increases through parallel execution for a broad spectrum of significant applications based on extensions to 'traditional' approaches. Multithreaded Computer Architecture is divided into four parts, reflecting four major perspectives on the topic. Part I provides the reader with basic background information, definitions, and surveys of work which have in one way or another been pivotal in defining and shaping multithreading as an architectural discipline. Part II examines key elements of multithreading, highlighting the fundamental nature of latency and synchronization. This section presents clever techniques for hiding latency and supporting large synchronization name spaces. Part III looks at three major multithreaded systems, considering issues of machine organization and compilation strategy. Part IV concludes the volume with an analysis of multithreaded architectures, showcasing methodologies and actual measurements. Multithreaded Computer Architecture: A Summary of the State of the Art is an excellent reference source and may be used as a text for advanced courses on the subject.

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This book focuses on mobile learning design from both theoretical and practical perspectives. It introduces and discusses how mobile learning can be effectively integrated into curricula, highlighting the design of four key components of learning-centric pedagogy: Resource, Activity, Support and Evaluation in the context of mobile learning. It also investigates the learning theories underpinning mobile learning design, and includes case studies in different contexts. It provides practical insights that allow teachers to change and transform teaching practices using mobile technology. Anyone involved in mobile-technology enhanced learning and teaching will find this book both informative and useful.

Television and Social Behavior: Television and adolescent aggressiveness
Mass Spectrometry
A Textbook
Springer Science & Business Media

This book contains a complete course in economics...such a thorough exposition...is ideal for A-level and Higher level courses, professional examinations and first year degree students
EBEA Journal (of the third edition)
Economics: A Student's Guide is a highly acclaimed and well respected textbook. Throughout its previous three editions it has built up a loyal and committed following amongst students and instructors alike. Written in a student friendly and jargon free manner the book combines the strengths of traditional economics texts with modern, active learning methods. Building on the strengths of the previous editions the Fourth Edition has been thoroughly revised and updated taking account of the changes which have occurred in the teaching of

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economics, and in the economics market. The new edition takes a balanced, pluralistic approach, developing arguments and following them through, encouraging students to explore different schools of thought. Key Features: ? Comprehensive approach to welfare economics incorporating the environmental debate.? Expanded coverage of the global aspect of economics and the world economy.? Successfully spans both A-Level and Degree markets.? Ne

This authoritative volume provides an overview of basic and advanced techniques used in quantitative EEG (qEEG) analysis. The book provides a wide range of mathematical tools used in qEEG, from single channel descriptors to the interactions among multi-channel EEG analysis. Moreover, you find coverage of the latest and most popular application in the field, including mental and neurological disease detection/monitoring, physiological and cognitive phenomena research, and fMRI.

This volume takes the child's environment (culture, education, family, peers and media) as an essential component of child development.

Techniques for high dynamic range (HDR) imaging make it possible to capture and store an increased range of luminances and colors as compared to what can be achieved with a conventional camera. This high amount of image information can be used in a wide range of applications, such as HDR displays, image-based lighting, tone-mapping, computer vision, and post-processing operations. HDR

imaging has been an important concept in research and development for many years. Within the last couple of years it has also reached the consumer market, e.g. with TV displays that are capable of reproducing an increased dynamic range and peak luminance. This thesis presents a set of technical contributions within the field of HDR imaging. First, the area of HDR video tone-mapping is thoroughly reviewed, evaluated and developed upon. A subjective comparison experiment of existing methods is performed, followed by the development of novel techniques that overcome many of the problems evidenced by the evaluation. Second, a largescale objective comparison is presented, which evaluates existing techniques that are involved in HDR video distribution. From the results, a first open-source HDR video codec solution, Luma HDRv, is built using the best performing techniques. Third, a machine learning method is proposed for the purpose of reconstructing an HDR image from one single-exposure low dynamic range (LDR) image. The method is trained on a large set of HDR images, using recent advances in deep learning, and the results increase the quality and performance significantly as compared to existing algorithms. The areas for which contributions are presented can be closely inter-linked in the HDR imaging pipeline. Here, the thesis work helps in promoting efficient and high-quality HDR video distribution and display, as well as robust HDR image

reconstruction from a single conventional LDR image.

DNS Security: Defending the Domain Name System provides tactics on how to protect a Domain Name System (DNS) framework by exploring common DNS vulnerabilities, studying different attack vectors, and providing necessary information for securing DNS infrastructure. The book is a timely reference as DNS is an integral part of the Internet that is involved in almost every attack against a network. The book focuses entirely on the security aspects of DNS, covering common attacks against DNS servers and the protocol itself, as well as ways to use DNS to turn the tables on the attackers and stop an incident before it even starts. Presents a multi-platform approach, covering Linux and Windows DNS security tips Demonstrates how to implement DNS Security tools, including numerous screen shots and configuration examples Provides a timely reference on DNS security, an integral part of the Internet Includes information of interest to those working in DNS: Securing Microsoft DNS and BIND servers, understanding buffer overflows and cache poisoning, DDoS Attacks, pen-testing DNS infrastructure, DNS firewalls, Response Policy Zones, and DNS Outsourcing, amongst other topics

This encyclopedia brings together established and emerging research findings in all relevant disciplines of gerontology and population aging. It provides

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comprehensive coverage of the entire breadth of the field, gives readers access to all major sub-fields and illustrates their interconnectedness with other disciplines. The more than 1,050 entries delve deep into key areas of gerontology and population aging—such as successful aging, disablement, ageism, longevity, biodemography, long-term care, and much more. Paying careful attention to national and international research, it cites English and non-English empirical literature from around the globe. In doing so, the encyclopedia is of interest to a wide audience that includes researchers, teachers and students, policy makers, nongovernmental agencies, public health practitioners, business marketing planners, futurists and strategists, and many other individuals and organizations. The encyclopedia brings together nearly 1,100 cross-disciplinary contributors, including academic researchers, biologists, psychiatrists, sociologists, anthropologists and public policy experts, and includes authors from around the world.

Offers advice based on the teachings of the Bible on how to develop a closer relationship with parents and children

Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive explanation of theory of consumer behavior, utility maximization and optimal choice, profit function, cost

minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate of return method, explicit re-investment rate of return method and payout method useful for studying economic studies. A chapter on value engineering discusses important topics such as function analysis systems techniques, the value index, value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of the concepts through illustrations and solved problems. This text is the ideal resource for Indian undergraduate engineering students in the fields of mechanical engineering, computer science and engineering and electronics engineering for a course on engineering economics/engineering economy.

From the individual to the largest organization, everyone today has to make investments in IT. Making a smart investment that will best satisfy all the necessary decision-making criteria requires careful and inclusive analysis. This textbook provides an up-to-date, in-depth understanding of the methodologies available to aid in this complex process of multi-criteria decision-making. It guides readers on the process of technology acquisition — what methods to use to make IT investment decisions, how to choose the technology and justify its selection, and how the decision will impact the organization. Unique to this textbook are

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both financial investment models and more complex decision-making models from the field of management science so that readers can extend the analysis benefits to enhance and confirm their IT investment choices. The wide range of methodologies featured in the book gives readers the opportunity to customize their best-fit solutions for their unique IT decision situation. This textbook is especially ideal for educators and students involved in programs dealing with technology management, operations management, applied finance, operations research, and industrial engineering. A complimentary copy of the 'Instructor's Manual and Test Bank' and the PowerPoint presentations of the text materials are available for all instructors who adopt this book as a course text. Please send your request to sales@wspc.com. [Errata\(s\) Errata \(47 KB\)](#)

Mass Spectrometry is an ideal textbook for students and professionals as well as newcomers to the field. Starting from the very first principles of gas-phase ion chemistry and isotopic properties, the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques. Step-by-step, the reader learns how mass spectrometry works and what it can do. The book comprises a balanced mixture of practice-oriented information and theoretical background. It features a clear layout and a wealth of high-quality figures. Exercises and solutions are located

on the Springer Global Web.

People go traveling for two reasons: because they are searching for something, or they are running from something. Katie's world is shattered by the news that her headstrong and bohemian younger sister, Mia, has been found dead at the bottom of a cliff in Bali. The authorities say that Mia jumped—that her death was a suicide. Although they'd hardly spoken to each other since Mia suddenly left on an around-the-world trip six months earlier, Katie refuses to accept that her sister would have taken her own life. Distraught that they never made peace, Katie leaves her orderly, sheltered life in London behind and embarks on a journey to find out the truth. With only the entries in Mia's travel journal as her guide, Katie retraces the last few months of her sister's life and—page by page, country by country—begins to uncover the mystery surrounding her death. . . . Weaving together the exotic settings and suspenseful twists of Alex Garland's *The Beach* with a powerful tale of familial love in the spirit of Rosamund Lupton's *Sister, Swimming at Night* is a fast-paced, accomplished, and gripping debut novel of secrets, loss, and forgiveness.

E-Health, Telehealth, and Telemedicine is a hands-on resource that shows how communication technologies can be designed, implemented, and managed to help health care professionals expand and transform their organizations. Step by

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step the authors reveal how to introduce innovative communication tools to a wide range of health care settings. This indispensable book contains a wealth of information, suggestions, and advice about program development, ethical, legal and regulatory issues, and and technical options.

This completely revised International Express, with 100% new material, meets all the practical language needs of adult professional learners. The series retains the popular student-centred approach and strong communicative focus, while adding a range of new features. The Student's Book and Workbook are now combined, and every unit is supported by stunning new video footage, bringing the outside world into the classroom.

This book provides a core revision resource for candidates sitting part 2 of the FRCOphth and other UK and international qualifying exams such as the FRCS, MRCS, FAMS and FRANZCO. Clear, didactic chapters logically outline the requirements for Structured Vivas and Objective Structured Clinical Examination with 'Do's and Don'ts' for each section. Viva and OSCE Exams in Ophthalmology: A Revision Study Guide fills the need for a study companion that contains all the required resources in a single usable guide for candidates sitting fellowship exams to become a registered ophthalmologist or surgeon. Ophthalmic specialist trainees, specialty doctors, staff grades, and associate

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specialists who wish to become a fellow will find this book to be an essential guide to revising for oral and clinical based exams in ophthalmology.

SCADA systems are at the heart of the modern industrial enterprise. In a market that is crowded with high-level monographs and reference guides, more practical information for professional engineers is required. This book gives them the knowledge to design their next SCADA system more effectively.

Manufacturing a product is not difficult, the difficulty consists in manufacturing a product of high quality, at a low cost and rapidly. Drastic technological advances are changing global markets very rapidly. In such conditions the ability to compete successfully must be based on innovative ideas and new products which has to be of high quality yet low in price. One way to achieve these objectives would be through massive investments in research of computer based technology and by applying the approaches presented in this book. The First International Conference on Advanced Manufacturing Systems and Technology AMST87 was held in Opatija (Croatia) in October 1987. The Second International Conference on Advanced Manufacturing Systems and Technology AMSV90 was held in Trento (Italy) in June 1990. The Third, Fourth, Fifth and Sixth Conferences on Advanced Manufacturing Systems and Technology were all held in Udine (Italy) as follows: AMST93 in April 1993, AMST96 in September 1996, AMST99 in June 1999 and AMST02 in June 2002.

Rodney Appell, and a host of respected clinical experts comprehensively summarize the state-of-the-art in the diagnosis and treatment of both neurogenic and nonneurogenic urinary problems in males and females alike. Tailored for use by today's busy practicing urologists, as

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well as frontline physicians, this book provides the essential physiological background for classifying voiding dysfunctions, surveys the practical diagnostics for these dysfunctions, and reviews the available treatments, including pharmacologic therapy, electrical stimulation, and surgery. Informative, practical, and clinically relevant, *Voiding Dysfunction: Diagnosis and Treatment* brings to every physician's treatment room a first-class compendium of the latest scientific facts, the best methods of diagnosis, and the most appropriate and effective treatments for these disturbingly widespread disorders.

Tackling inequalities in health is an essential social work task. Every day, social workers grapple with the impact on people's lives of the social inequalities that shape their health chances and experience. This book examines the relationship between social work and health inequalities in the context of globalisation. Based on the practice expertise and research of social workers from developing and developed countries worldwide and using specific examples, this book: · demonstrates the relevance of health inequalities to social work practice and policy across the lifecourse; · analyses barriers to good health that result from global social, economic, environmental and political trends; · develops core ideas on how social workers can act to combat negative effects of globalisation by adopting a health inequalities lens. *Social work and global health inequalities* is a unique snapshot of a new global social work that is responsive to local conditions and circumstances but seeks partners in the international struggle for equity, rights and social justice. This groundbreaking collection is essential reading for social work students, academics and researchers, and for policy makers, managers and social workers.

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