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*Brief Calculus and Its Applications* Aug 19 2021 Normal 0 false false false Goldstein's *Brief Calculus and Its Applications*, Twelfth Edition is a comprehensive print and online program for readers interested in business, economics, life science, or social sciences. Without sacrificing mathematical integrity, the book clearly presents the concepts with a large quantity of exceptional, in-depth exercises. The authors' proven formula-pairing substantial amounts of graphical analysis and informal geometric proofs with an abundance of exercises has proven to be tremendously successful with both students and instructors. The textbook is supported by a wide array of supplements as well as MyMathLab® and MathXL®, the most widely adopted and acclaimed online homework and assessment system on the market. *Functions; The Derivative; Applications of the Derivative; Techniques of Differentiation; Logarithm Functions; Applications of the Exponential and Natural Logarithm Functions; The Definite Integral; Functions of Several Variables; The Trigonometric Functions; Techniques of Integration* For all readers interested in applied calculus.

*Lignin Chemistry and Applications* Oct 21 2021 *Lignin Chemistry and Application* systematically discusses the structure, physical and chemical modification of lignin, along with its application in the field of chemicals and materials. It presents the history of lignin chemistry and lignin-modified materials, describes recent progresses, applications and studies, and prospects the development direction of high value applications of lignin in the field of material science. In addition to covering the basic theories and technologies relating to the research and application of lignin in polymer chemistry and materials science, the book also summarizes the latest applications in rubber, engineering plastics, adhesives, films and hydrogels. Systematically discusses the structure, physical and chemical modification of lignin and its application in materials. Presents the latest research results in the field of lignin. Indicates the development direction of high value applications of lignin in a range of fields, including petrochemicals, household applications, medicine, agriculture, and more. *Computational Science and Its Applications -- ICCSA 2012* Mar 14 2021 The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPAA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - econometrics and multidimensional evaluation in the urban environment (EMEUE); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensing and actuation for cyber physical systems (MSA4CPS); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in computational sciences (SPCS); soft computing and data engineering (SCDE). The topics of the fully refereed papers are structured according to the four major conference themes: 7333 - computational methods, algorithms and scientific application; 7334 - geometric modelling, graphics and visualization; 7335 - information systems and technologies; 7336 - high performance computing and networks.

*Motor Learning and Control* Nov 09 2020 "This twelfth edition primarily updates the previous edition by adding more recent research and interpretations of the concepts and theoretical views associated with those concepts that were in the eleventh edition. Similar to the previous editions this new edition continues its two most distinctive features as an introductory motor learning and control textbook: its overall approach to the study of motor learning and control and the organization of the implementation of that approach. In every edition of this book, the overall approach has been the presentation of motor learning and control "concepts" to identify the common theme of each chapter. The concepts should be viewed as generalized statements and conclusions synthesized from collections of research findings. Following the concept statement is a description of a real-world application of the concept, which is then followed by discussions of specific topics and issues associated with the concept. An important part of these discussions are summaries of research evidence, on which we base our present knowledge of each topic and issue, as well as the implications of this knowledge for practitioners. The benefit of this organizational scheme is the presentation of motor learning and control as a set of principles and guidelines for practitioners, which are based on research evidence rather than on tradition or "how things have always been done"--

*Financial Management* Aug 07 2020 For the introductory finance course--undergraduate corporate finance or financial management--required at all undergraduate business schools. Get the picture and develop a fundamental understanding of finance. Students often miss the big picture, viewing finance as a set of unrelated topics, tools, and techniques. In order to help students see the big picture, this text provides an introduction to financial decision-making that links the concepts to five key principles of finance. Authors Arthur J. Keown, John D. Martin, and Sheridan Titman have incorporated significant revisions that weave currency, relevance, and real-world issues into the pages of this well-know finance text.

*Mathematical Applications for the Management, Life, and Social Sciences* Jun 04 2020 MATHEMATICAL APPLICATIONS FOR THE MANAGEMENT, LIFE, AND SOCIAL SCIENCES, 10th Edition, is intended for a two-semester applied calculus or combined finite mathematics and applied calculus course. The book's concept-based approach, multiple presentation methods, and interesting and relevant applications keep students who typically take the course--business, economics, life sciences, and social sciences majors--engaged in the material. This edition broadens the book's real-life context by adding a number of environmental science and economic applications. The use of modeling has been expanded, with modeling problems now clearly labeled in the examples. Also included in the Tenth Edition is a brief review of algebra to prepare students with different backgrounds for the material in later chapters. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Fuzzy Logic and Applications* Dec 11 2020 This book constitutes the post-conference proceedings of the 12th International Workshop on Fuzzy Logic and Applications, WILF 2018, held in Genoa, Italy, in September 2018. The 17 revised full papers and 9 short papers were carefully reviewed and selected from 26 submissions. The papers are organized in topical sections on fuzzy logic theory, recent applications of fuzzy logic, and fuzzy decision making. Also included are papers from the round table "Zadeh and the future of logic" and a tutorial.

*K-12 Education: Concepts, Methodologies, Tools, and Applications* Aug 31 2022 Primary and Secondary education is a formative time for young students. Lessons learned before the rigors of higher education help to inform learners' future successes, and the increasing prevalence of learning tools and technologies can both help and hinder students in their endeavors. *K-12 Education: Concepts, Methodologies, Tools, and Applications* investigates the latest advances in online and mobile learning, as well as pedagogies and ontologies influenced by current developments in information and communication technologies, enabling teachers, students, and administrators to make the most of their educational experience. This multivolume work presents all stakeholders in K-12 education with the tools necessary to facilitate the next generation of student-teacher interaction.

*Formal Methods: Foundations and Applications* Mar 26 2022 This volume contains the papers presented at SBMF 2009: the Brazilian Symposium on Formal

Methods, held during August 19–21, 2009 in Gramado, Rio Grande do Sul, Brazil. The SBMF programme included three invited talks given by Leonardo de Moura (Microsoft Research), Sebastian Uchitel (University of Buenos Aires and Imperial College London), and Daniel Kroening (University of Oxford). The symposium was accompanied by two short courses: - Introduction to Software Testing, given by Marco Eduardo Delamaro (University of Sao Paulo) - Formal Models for Automatic Test Case Generation, given by Patrícia Machado and Wilkerson Andrade (Federal University of Campina Grande). This year, the SBMF symposium had a special section on the Grand Challenge in Verified Software, inspired by recent advances in theory and tool support.

Work on the grand challenge started with the creation of a Verified Software Repository with two principal aims: - To collect a set of verified software components - To conduct a series of industrial-scale verification experiments with theoretical significance and impact on tool support. This special session on the grand challenge was dedicated to two pilot projects currently underway: - The Flash File Store. The challenge is to verify the correctness of a fault-tolerant, POSIX-compliant file store implemented on flash memory. Verification issues include dependability guarantees as well as software correctness. Levels of abstraction include requirements specification, software design, executable code, device drivers, and flash translation layers. The challenge was inspired by the requirements for forthcoming NASA space missions. - FreeRTOS.

Ordered mesoporous silica COK-12: mesoscale tailoring, upscaling, continuous synthesis and application in the oxidative coupling of methane Apr 26 2022  
Ordered mesoporous silica (OMS) materials are a family of silica nanomaterials with pores ranging in size from 2 to 50 nm which are arranged periodically within the silica matrix. They have expanding applications in various fields of research, such as drug delivery, adsorption, separation and catalysis. COK-12 is an OMS produced by the soft-templating method, using the block copolymer P123 as a structure-directing agent. The synthesis takes place at room temperature under mild reaction conditions. In comparison with the most widely known OMS, the synthesis of COK-12 is more time efficient, inexpensive and environmentally friendly, yielding a material analogous to the well-known SBA-15. This thesis encompasses investigations regarding the production of the ordered mesoporous silica material (OMS) known as COK-12, in terms of upscaling of the synthesis and tailoring of the size and shape of its characteristic hexagonal pore structure. Batch upscaling of the synthesis yielded a material with nearly identical properties to that of the original COK-12. Upscaling of the COK-12 synthesis was also studied in continuous mode. The installation and operation of a continuous COK-12 production unit was carried out with the aim to determine the possibility of large-scale production of COK-12 with consistent material properties. COK-12 was produced in continuous mode by varying the time of aging of the COK-12 slurry and the flow rate of the feed streams, yielding materials with properties nearly identical to those of the original COK-12. COK-12 was used as a support for the Na<sub>2</sub>WO<sub>4</sub>-Mn/SiO<sub>2</sub> catalyst for the oxidative coupling of methane reaction in various forms (powder, granular produced by pressing and monolithic), showing promising results comparable to the enhanced activity of the catalyst supported on the SBA-15. The advantage of using COK-12 over other OMS materials is that the facile nature of COK-12 synthesis makes it a viable candidate for industrial production of the Na<sub>2</sub>WO<sub>4</sub>-Mn/SiO<sub>2</sub> catalyst, if paired with appropriate pelletizing and preparation method. The introduction of hexane and polypropylene glycol (PPG) as micellar swelling agents into the original COK-12 synthesis was studied in order to tailor the mesoporous structure of the system. Hexane was used as a micelle expander and as an agent to produce silica mesocellular foams, with "ink-bottle" shaped pores with a larger diameter than that of the original COK-12. By adding PPG into the synthesis, the shift of the mesostructure of COK-12 from 2D hexagonal to a multilamellar vesicular configuration was studied, resulting in the progressive formation of this type of material with increasing concentration of PPG. The flexibility of the COK-12 synthesis in terms of upscaling and tailoring of the mesostructure was examined throughout this work, with an aim to contribute to the existing and expanding knowledge regarding more versatile, sustainable and possibly industrial OMS production. Ordered Mesoporous Silica (OMS) gehört zu der Familie der Silica-Nanomaterialien mit periodisch angeordneten Mesoporen im Größenbereich zwischen 2 und 50 nm. Diese werden zunehmend in unterschiedlichen Forschungsfeldern wie Medikamentenfreisetzung, Adsorption, Separation und Katalyse eingesetzt. COK-12 ist ein OMS, das über eine Soft-Templating-Methode unter Nutzung des Blockcopolymeren P123 als strukturbestimmenden Zusatz erzeugt wird. Die Synthese erfolgt bei Raumtemperatur unter milden Reaktionsbedingungen. Im Vergleich zu den am weitesten bekannten OMS-Materialien ist die Synthese von COK-12 zeiteffizient, günstig und umweltfreundlich. Dabei wird ein OMS-Material analog zu dem bereits etablierten SBA-15 erzeugt. Die vorliegende Dissertation umfasst die Synthese eines als COK-12 bekannten OMS-Materials, dem Scale-Up der Synthese sowie die Anpassung und Modifizierung der ursprünglich hexagonal angeordneten Mesoporen bezüglich Porengrößen und Porenform. Das diskontinuierliche Scale-Up im Batchprozess führt zu nahezu identischen Materialeigenschaften im Vergleich zu dem ursprünglichen COK-12. Ein Scale-Up der COK-12-Synthese wurde zusätzlich im kontinuierlichen Prozess erprobt. Dessen Installation und Operation wurde mit dem Ziel durchgeführt, um die Möglichkeit einer Produktion von großen Mengen an COK-12 mit einheitlichen Materialeigenschaften zu validieren. Durch eine Variation der Alterungszeit als auch der Fließrate der Lösungen konnte COK-12 im kontinuierlichen Prozess mit nahezu identischen Eigenschaften wie das ursprüngliche COK-12 erzeugt werden. COK-12 wurde erfolgreich in verschiedenen Formen (Pulver, Pressgranulate und Monolithe) als Trägermaterial für Na<sub>2</sub>WO<sub>4</sub>-Mn/SiO<sub>2</sub>-Katalysatoren für die Oxidative Kopplung von Methan eingesetzt. Die resultierenden Aktivitäten sind vergleichbar mit denen des auf SBA-15-geträgerten Katalysators. Der Vorteil der Nutzung von COK-12 im Vergleich zu anderen OMS-Materialien liegt in der vergleichsweise simplen COK-12-Synthese, weshalb es ein interessanter Kandidat für eine mögliche industrielle Produktion des Na<sub>2</sub>WO<sub>4</sub>-Mn/SiO<sub>2</sub>-Katalysators ist, wenn geeignete Pelletierungs- und Herstellungsmethoden angewendet werden. Die Zugabe von Hexan und Polypropylenglykol (PPG) zur Aufweitung der Mizellen in der ursprünglichen COK-12-Synthese wurde untersucht, um die mesoporöse Struktur des Systems zu variieren. Hexan wurde eingesetzt zur Aufweitung der Mizellen und als Hilfsmittel zur Produktion mesozellulärer Silica-Schäume mit „ink-bottle“-förmigen Poren sowie vergrößertem Porendurchmesser im Vergleich zu denen des ursprünglichen COK-12. Durch die Zugabe von PPG in die Synthese verändert sich die Mesoporenstruktur der ursprünglichen hexagonalen 2D-Struktur zu einer multilamellaren vesikulären Anordnung, die mit zunehmender PPG-Konzentration verstärkt wird. Die Flexibilität der COK-12-Synthese wurde in dieser Arbeit in Bezug auf ein Scale-Up und eine Porenmodifikation weitreichend untersucht, mit dem Ziel das existierende Wissen in Bezug auf eine vielseitige, nachhaltige sowie eine potentielle Industrieproduktion der COK-12-Synthese zu entwickeln.

Artificial Intelligence: Methodology, Systems, and Applications Sep 19 2021 This book constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence: Methodology, Systems, and Applications, AIMSA 2006. The 28 revised full papers presented together with the abstracts of 2 invited lectures were carefully reviewed and selected from 81 submissions. The papers are organized in topical sections on agents, constraints and optimization, user concerns, decision support, models and ontologies, machine learning, ontology manipulation, natural language processing, and applications.

Wearable Sensors Jan 30 2020 Written by industry experts, this book aims to provide you with an understanding of how to design and work with wearable sensors. Together these insights provide the first single source of information on wearable sensors that would be a valuable addition to the library of any engineer interested in this field. Wearable Sensors covers a wide variety of topics associated with the development and application of various wearable sensors. It also provides an overview and coherent summary of many aspects of current wearable sensor technology. Both industry professionals and academic researchers will benefit from this comprehensive reference which contains the most up-to-date information on the advancement of lightweight hardware, energy harvesting, signal processing, and wireless communications and networks. Practical problems with smart fabrics, biomonitors and health informatics are all addressed, plus end user centric design, ethical and safety issues. Provides the first comprehensive resource of all currently used wearable devices in an accessible and structured manner. Helps engineers manufacture wearable devices with information on current technologies, with a focus on end user needs and recycling requirements. Combines the expertise of professionals and academics in one practical and applied source.

Mathematics With Applications Jun 16 2021

Similarity Search and Applications Nov 02 2022 This book constitutes the refereed proceedings of the 12th International Conference on Similarity Search and Applications, SISAP 2019, held in Newark, NJ, USA, in October 2019. The 12 full papers presented together with 18 short and 3 doctoral symposium papers were carefully reviewed and selected from 42 submissions. The papers are organized in topical sections named: Similarity Search and Retrieval; The Curse of Dimensionality; Clustering and Outlier Detection; Subspaces and Embeddings; Applications; Doctoral Symposium Papers.

Rewriting Techniques and Applications Jun 28 2022 This book constitutes the refereed proceedings of the 12th International Conference on Rewriting Techniques and Applications, RTA 2001, held in Utrecht, The Netherlands, in May 2001. The 23 revised full papers presented together with two system descriptions were carefully reviewed and selected from 55 submissions. All current aspects of rewriting are addressed.

Theory and Applications of Satisfiability Testing - SAT 2009 May 16 2021 This book constitutes the refereed proceedings of the 12th International Conference on Theory and Applications of Satisfiability Testing, SAT 2009, held in Swansea, UK, in June/July 2009. The 34 revised full papers presented together with 11 revised short papers and 2 invited talks were carefully selected from 86 submissions. The papers are organized in topical sections on

applications of SAT, complexity theory, structures for SAT, resolution and SAT, translations to CNF, techniques for conflict-driven SAT Solvers, solving SAT by local search, hybrid SAT solvers, automatic adaption of SAT solvers, stochastic approaches to SAT solving, QBFs and their representations, optimization algorithms, distributed and parallel solving.

Educational Research Oct 01 2022 A leader in Introduction to Educational Research courses, *Educational Research: Competencies for Analysis and Applications*, ninth edition, remains a practical text focused on the skills and procedures students need in order to become competent consumers and producers of educational research. The accessible writing style and light, humorous tone of this book helps to demystify and enliven this demanding course. The text uses a direct, step-by-step approach to the research process. Tasks are included throughout the text to guide students through the process of creating their own research report. Published research articles are now included in every research methods chapter to provide students with illustrations of exemplary qualitative and quantitative research. Key changes in the ninth edition include an expanded coverage of qualitative research through a new chapter on Case Study Research (Chapter 17), a new chapter on Survey Research (Chapter 7), an increased emphasis on ethical considerations in the conduct of educational research (Chapter 1), and significant updates to Descriptive Statistics (Chapter 12) and Inferential Statistics (Chapter 13) that increase the coverage of how to use technology in the research process."

Human Genetics Jul 30 2022

Data and Information Quality Dec 31 2019 This book provides a systematic and comparative description of the vast number of research issues related to the quality of data and information. It does so by delivering a sound, integrated and comprehensive overview of the state of the art and future development of data and information quality in databases and information systems. To this end, it presents an extensive description of the techniques that constitute the core of data and information quality research, including record linkage (also called object identification), data integration, error localization and correction, and examines the related techniques in a comprehensive and original methodological framework. Quality dimension definitions and adopted models are also analyzed in detail, and differences between the proposed solutions are highlighted and discussed. Furthermore, while systematically describing data and information quality as an autonomous research area, paradigms and influences deriving from other areas, such as probability theory, statistical data analysis, data mining, knowledge representation, and machine learning are also included. Last not least, the book also highlights very practical solutions, such as methodologies, benchmarks for the most effective techniques, case studies, and examples. The book has been written primarily for researchers in the fields of databases and information management or in natural sciences who are interested in investigating properties of data and information that have an impact on the quality of experiments, processes and on real life. The material presented is also sufficiently self-contained for masters or PhD-level courses, and it covers all the fundamentals and topics without the need for other textbooks. Data and information system administrators and practitioners, who deal with systems exposed to data-quality issues and as a result need a systematization of the field and practical methods in the area, will also benefit from the combination of concrete practical approaches with sound theoretical formalisms.

Calculus and Its Applications Jul 06 2020 NOTE: You are purchasing a standalone product; MyMathLab does not come packaged with this content. If you would like to purchase both the physical text and MyMathLab, search for: 013379556X / 9780133795561 Calculus And Its Applications Plus MyMathLab with Pearson eText -- Access Card Package Package consists of: 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 MyMathLab Inside Star Sticker 0321979397 / 9780321979391 Calculus And Its Applications MyMathLab should only be purchased when required by an instructor. *Calculus and Its Applications, Eleventh Edition*, remains a best-selling text because of its accessible presentation that anticipates student needs. The writing style is ideal for today's students, providing intuitive explanations that work with the carefully crafted artwork to help them visualize new calculus concepts. Additionally, the text's numerous and up-to-date applications from business, economics, life sciences, and social sciences help motivate students. Algebra diagnostic and review material is available for those who need to strengthen basic skills. Every aspect of this revision is designed to motivate and help students to more readily understand and apply the mathematics.

Hydrocyclones Jan 24 2022 It is with great pleasure and satisfaction that we introduce this volume which comprises the papers accepted for the 4th International Conference on Hydrocyclones held in Southampton from 23rd to 25th September 1992. As the name implies, this is the fourth Conference in the series, with the previous ones held in Cambridge in 1980, Bath in 1984 and Oxford in 1987. The papers cover a wide span of activities, from fundamental research to advances in industrial practice and, as in the earlier volumes, make a significant contribution of lasting value to the technical literature on hydrocyclones. Hydrocyclones continue to widen their appeal to engineers; besides their traditional role in mineral processing they now attract a lot of attention in chemical engineering, the oil and gas industry, power generation, the food industry, textiles, metal working, waste water treatment, pharmaceuticals, biotechnology and other industries. The reason for this continuously increasing attention is, as David Parkinson (General Manager of Conoco (UK)) said recently, that "... a hydrocyclone is an engineering dream, a machine with no moving parts." Yet as this Volume clearly shows, the hydrocyclone can do so many things and do them well, whether the application is in solid-liquid, liquid-liquid or liquid-gas separation.

Current Trends in Analysis, its Applications and Computation Sep 27 2019 This volume contains the contributions of the participants of the 12th ISAAC congress which was held at the University of Aveiro, Portugal, from July 29 to August 3, 2019. These contributions originate from the following sessions: Applications of dynamical systems theory in biology, Complex Analysis and Partial Differential Equations, Complex Geometry, Complex Variables and Potential Theory, Constructive Methods in the Theory of Composite and Porous Media, Function Spaces and Applications, Generalized Functions and Applications, Geometric & Regularity Properties of Solutions to Elliptic and Parabolic PDEs, Geometries Defined by Differential Forms, Partial Differential Equations on Curved Spacetimes, Partial Differential Equations with Nonstandard Growth, Quaternionic and Clifford Analysis, Recent Progress in Evolution Equations, Wavelet theory and its Related Topics.

Sensors and Their Applications XII Apr 14 2021 *Sensors and Their Applications XII* discusses novel research in the areas of sensors and transducers and provides insight into new and topical applications of this technology. It covers the underlying physics, fabrication technologies, and commercial applications of sensors. Some of the topics discussed include optical sensing, sensing materials, nondestructive monitoring, imaging sensors, system networks, and water quality monitoring.

Computer Vision, Imaging and Computer Graphics - Theory and Applications Oct 09 2020 This book constitutes thoroughly revised and selected papers from the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, VISIGRAPP 2017, held in Porto, Portugal, February 27 - March 1, 2017. The 18 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 402 submissions. The papers contribute to the understanding of relevant trends of current research on image and video formation, preprocessing, analysis and understanding; motion, tracking and stereo vision; computer graphics and rendering; data visualization and interactive visual data analysis; agent-based human-robot interactions; and user experience.

Computer Science - Theory and Applications Jun 24 2019 This book constitutes the proceedings of the 12th International Computer Science Symposium in Russia, CSR 2017, held in Kazan, Russia, in June 2017. The 22 full papers presented in this volume were carefully reviewed and selected from 44 submissions. In addition the book contains 6 invited lectures. The scope of the proposed topics is quite broad and covers a wide range of areas such as: include, but are not limited to: algorithms and data structures; combinatorial optimization; constraint solving; computational complexity; cryptography; combinatorics in computer science; formal languages and automata; algorithms for concurrent and distributed systems, networks; applications of logic to computer science, e.g. proof theory, model checking and verification; formal and algorithmic aspects of bio-informatics; current challenges such as quantum computing.

Haptics: Science, Technology, Applications Feb 10 2021 This open access book constitutes the proceedings of the 12th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications, EuroHaptics 2020, held in Leiden, The Netherlands, in September 2020. The 60 papers presented in this volume were carefully reviewed and selected from 111 submissions. They were organized in topical sections on haptic science, haptic technology, and haptic applications. This year's focus is on accessibility.

Innovations in Bio-Inspired Computing and Applications Apr 02 2020 This book highlights recent research on bio-inspired computing and its various innovative applications in information and communication technologies. It presents 80 high-quality papers from the 12th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2021) and 11th World Congress on Information and Communication Technologies (WICT 2021), which was held online during December 16-18, 2021. As a premier conference, IBICA-WICT brings together researchers, engineers and practitioners whose work involves bio-inspired computing, computational intelligence and their applications in information security, real-world contexts, etc. Including contributions by authors from 25 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of

Computer Science and Engineering.

*Mathematical Applications for the Management, Life, and Social Sciences* Jul 18 2021 MATHEMATICAL APPLICATIONS FOR THE MANAGEMENT, LIFE, AND SOCIAL SCIENCES, 12th Edition, engages students with its concept-based approach, multiple presentation methods and relevant applications throughout. Intended for two-semester applied calculus or combined finite mathematics and applied calculus courses, the book places concepts in real-life context to help students strengthen their understanding. A focus on modeling—with modeling problems clearly labeled in the examples and problems, so they can be treated as optional—and flexible content organization accommodate different teaching approaches, enabling instructors to decide the order in which topics may be presented and the degree to which they may be emphasized. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Photoplethysmography* Nov 29 2019 *Photoplethysmography: Technology, Signal Analysis, and Applications* is the first comprehensive volume on the theory, principles, and technology (sensors and electronics) of photoplethysmography (PPG). It provides a detailed description of the current state-of-the-art technologies/optical components enabling the extreme miniaturization of such sensors, as well as comprehensive coverage of PPG signal analysis techniques including machine learning and artificial intelligence. The book also outlines the huge range of PPG applications in healthcare, with a strong focus on the contribution of PPG in wearable sensors and PPG for cardiovascular assessment. Presents the underlying principles and technology surrounding PPG Includes applications for healthcare and wellbeing Focuses on PPG in wearable sensors and devices Presents advanced signal analysis techniques Includes cutting-edge research, applications and future directions

*Applications and Techniques in Information Security* Oct 28 2019 This book constitutes the refereed proceedings of the 12th International Conference on Applications and Techniques in Information Security, ATIS 2021, held as a virtual event in December 2021. The 9 full papers along with the 5 short papers presented in the volume were carefully reviewed and selected from 67 submissions. The papers are focused on all aspects on techniques and applications in information security research.

*Progress in Pattern Recognition, Image Analysis and Applications* Sep 07 2020 This book constitutes the refereed proceedings of the 12th Iberoamerican Congress on Pattern Recognition, CIARP 2007, held in Valparaiso, Chile, November 13-16, 2007. The 97 revised full papers presented together with four keynote articles were carefully reviewed and selected from 200 submissions. The papers cover ongoing research and mathematical methods for pattern recognition, image analysis, and applications in areas such as computer vision, robotics, industry and health.

*Bio-inspired Computing: Theories and Applications* Dec 23 2021 This book constitutes the proceedings of the 12th International Conference on Bio-inspired Computing: Theories and Applications, BIC-TA 2017, held in Harbin, China, December 2017. The 50 full papers presented were selected from 143 submissions. The papers deal with studies abstracting computing ideas such as data structures, operations with data, ways to control operations, computing models from living phenomena or biological systems such as evolution, cells, tissues, neural networks, immune systems, and ant colonies.

*Wireless Algorithms, Systems, and Applications* Aug 26 2019 This book constitutes the proceedings of the 12th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2017, held in Guilin, China, in June 2017. The 70 full papers and 9 short papers presented in this book were carefully reviewed and selected from 238 submissions. The papers cover various topics such as cognitive radio networks; wireless sensor networks; cyber-physical systems; distributed and localized algorithm design and analysis; information and coding theory for wireless networks; localization; mobile cloud computing; topology control and coverage; security and privacy; underwater and underground networks; vehicular networks; internet of things; information processing and data management; programmable service interfaces; energy-efficient algorithms; system and protocol design; operating system and middle-ware support; and experimental test-beds, models and case studies.

*Web Information Retrieval* May 04 2020 With the proliferation of huge amounts of (heterogeneous) data on the Web, the importance of information retrieval (IR) has grown considerably over the last few years. Big players in the computer industry, such as Google, Microsoft and Yahoo!, are the primary contributors of technology for fast access to Web-based information; and searching capabilities are now integrated into most information systems, ranging from business management software and customer relationship systems to social networks and mobile phone applications. Ceri and his co-authors aim at taking their readers from the foundations of modern information retrieval to the most advanced challenges of Web IR. To this end, their book is divided into three parts. The first part addresses the principles of IR and provides a systematic and compact description of basic information retrieval techniques (including binary, vector space and probabilistic models as well as natural language search processing) before focusing on its application to the Web. Part two addresses the foundational aspects of Web IR by discussing the general architecture of search engines (with a focus on the crawling and indexing processes), describing link analysis methods (specifically Page Rank and HITS), addressing recommendation and diversification, and finally presenting advertising in search (the main source of revenues for search engines). The third and final part describes advanced aspects of Web search, each chapter providing a self-contained, up-to-date survey on current Web research directions. Topics in this part include meta-search and multi-domain search, semantic search, search in the context of multimedia data, and crowd search. The book is ideally suited to courses on information retrieval, as it covers all Web-independent foundational aspects. Its presentation is self-contained and does not require prior background knowledge. It can also be used in the context of classic courses on data management, allowing the instructor to cover both structured and unstructured data in various formats. Its classroom use is facilitated by a set of slides, which can be downloaded from [www.search-computing.org](http://www.search-computing.org).

*Ambient Intelligence - Software and Applications - 12th International Symposium on Ambient Intelligence* Jan 12 2021 This book presents the latest research on Ambient Intelligence (AmI) including software and applications in different areas such as Internet of Things, Multi-Agent Systems or e-Learning, among others. AmI is a paradigm emerging from Artificial Intelligence, in which computers are used as proactive tools for assisting people with their day-to-day activities, making everyone's lives more comfortable. Another main concern of AmI originates from the human-computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means of user-friendly interfaces. The published book correspond to technical and novel works carried out by scientists conducting research within the AmI area in one of the areas mentioned above. The intended readers are those with mainly technical profiles who are already working in the area of AmI or who want to focus their current work in this area. The papers collected in this book were presented at a symposium which was jointly organized by the Universidade do Minho and University of Salamanca. The latest installment was held in Salamanca, Spain, from October 6th to 8th, 2021. The authors wish to thank the sponsors: IBM, Indra, Viewnext, Global Exchange, AEPIA, APPIA and AIR Institute.

*Microeconomics* Nov 21 2021 *Microeconomics: Theory & Applications*, 12th Edition provides students with the fundamental tools of analysis, and shows how these tools can be used to explain and predict phenomena. Written for both economics and business students, Edgar Browning and Mark Zupan present basic microeconomic principles in a clear and thorough way, using numerous applications to illustrate the use of theory, and reinforce students' understanding.

*Digital Systems* Jul 26 2019

*Sensors and Their Applications XII* Mar 02 2020 *Sensors and Their Applications XII* discusses novel research in the areas of sensors and transducers and provides insight into new and topical applications of this technology. It covers the underlying physics, fabrication technologies, and commercial applications of sensors. Some of the topics discussed include optical sensing, sensing materials, no

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