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readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

*Graph-Theoretic Concepts
in Computer Science*
Academic Press
We welcome you to the Second International Conference on E-commerce and Web Technology (ECWEB 2001) held in conjunction with DEXA 2001 in Munich,

Germany. This conference, now in its second year, is a forum to bring together researchers from academia and commercial developers from industry to discuss the state of the art in E commerce and web technology and explore new ideas. We thank you all for coming to Munich to participate and debate the new emerging advances in this area. The research presentation and discussion during the conference will help to exchange new ideas

among the researchers, developers, and practitioners. The conference program consists of an invited talk by Hannes Werthner, University of Trento, Italy, as well as the technical sessions. The regular sessions cover topics from XML Transformations and Web Development to User Behavior and Case Studies. The workshop has attracted more than 80 papers and each paper has been reviewed by at least 3 program committee members for its merit. The program

committee have selected 31 papers for presentation. We would like to express our thanks to the people who helped put together the technical program: the program committee members and external reviewers for their timely and rigorous reviews of the papers, the DEXA organizing committee for their help in administrative work and support, and special thanks to Gabriela Wagner for always responding promptly.
Popular Science
Routledge

Covers woods, paints, metals, glues and epoxies, concrete and plaster, photography, household chemistry, insecticides, laundering and stain removal, first aid, fire fighting. Includes formulas, methods, tables, conversions. The Saturday Review of Politics, Literature, Science and Art Springer Applied Solid State Science: Advances in Materials and Device Research, Volume 5 covers articles on devices made with Si, GaAs, and CdS and on the

photoconductive insulators of the xerographic process. The book discusses design ideas and fabrication techniques that have raised the efficiency of microwave generators; as well as xerography and photoinduced discharge characteristics of photoconductive insulators. The text then describes a great variety of devices, both unipolar and bipolar, which make use of the advantages of ion implantation for introducing impurities into silicon in a most

controllable manner. The progress made toward the goal of providing a low cost solar energy conversion device for terrestrial applications is also considered. The book further tackles high efficiency impatt diodes; the physics of xerographic photoreceptors; ion implantation in silicon; and cadmium sulfide solar cells. Solid state physicists, materials scientists, electrical engineers, and graduate students studying the subjects being discussed will find the book

invaluable.

Popular Science Monthly
and World Advance

Springer Nature

This volume presents the proceedings of the workshop CSL '91 (Computer Science Logic) held at the University of Berne, Switzerland, October 7-11, 1991. This was the fifth in a series of annual workshops on computer sciencelogic (the first four are recorded in LNCS volumes 329, 385, 440, and 533). The volume contains 33 invited and selected papers on a variety of

logical topics in computer science, including abstract datatypes, bounded theories, complexity results, cut elimination, denotational semantics, infinitary queries, Kleene algebra with recursion, minimal proofs, normal forms in infinite-valued logic, ordinal processes, persistent Petri nets, plausibility logic, program synthesis systems, quantifier hierarchies, semantics of modularization, stable logic, term rewriting systems, termination of

logic programs, transitive closure logic, variants of resolution, and many others.

Popular Science

Springer

This volume contains 27 contributions to the Forth Russian-German Advanced Research Workshop on Computational Science and High Performance Computing presented in October 2009 in Freiburg, Germany. The workshop was organized jointly by the High Performance Computing Center Stuttgart (HLRS), the

Institute of Computational Technologies of the Siberian Branch of the Russian Academy of Sciences (ICT SB RAS) and the Section of Applied Mathematics of the University of Freiburg (IAM Freiburg) The contributions range from computer science, mathematics and high performance computing to applications in mechanical and aerospace engineering. They show a wealth of theoretical work and simulation experience with a potential of

bringing together theoretical mathematical modelling and usage of high performance computing systems presenting the state of the art of computational technologies.

Resources in Education

Cambridge University Press

With this hands-on introduction readers will learn what SDEs are all about and how they should use them in practice.

Machine Learning, Optimization, and Data Science Springer Nature

A Publishers Weekly best book of 1995! Dr. Michael Guillen, known to millions as the science editor of ABC's Good Morning America, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime's most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr.

Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein's famous energy equation, $E=mc^2$ -- enabled the creation of the nuclear bomb. Also revealed are the mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical

imagination," and named a Best Nonfiction Book of 1995, the stories behind The Five Equations That Changed the World, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

Cyclopædia of Political Science, Political Economy, and of the Political History of the United States Springer

Science & Business Media This book provides an extensive overview of the principles and methods of sample size calculation

and recalculation in clinical trials. Appropriate calculation of the required sample size is crucial for the success of clinical trials. At the same time, a sample size that is too small or too large is problematic due to ethical, scientific, and economic reasons. Therefore, state-of-the art methods are required when planning clinical trials. Part I describes a general framework for deriving sample size calculation procedures. This enables an understanding of the

common principles underlying the numerous methods presented in the following chapters. Part II addresses the fixed sample size design, where the required sample size is determined in the planning stage and is not changed afterwards. It covers sample size calculation methods for superiority, non-inferiority, and equivalence trials, as well as comparisons between two and more than two groups. A wide range of further topics is discussed, including

sample size calculation for multiple comparisons, safety assessment, and multi-regional trials. There is often some uncertainty about the assumptions to be made when calculating the sample size upfront. Part III presents methods that allow to modify the initially specified sample size based on new information that becomes available during the ongoing trial. Blinded sample size recalculation procedures for internal pilot study designs are considered, as well as methods for sample size

reassessment in adaptive designs that use unblinded data from interim analyses. The application is illustrated using numerous clinical trial examples, and software code implementing the methods is provided. The book offers theoretical background and practical advice for biostatisticians and clinicians from the pharmaceutical industry and academia who are involved in clinical trials. Covering basic as well as more advanced and recently developed

methods, it is suitable for beginners, experienced applied statisticians, and practitioners. To gain maximum benefit, readers should be familiar with introductory statistics. The content of this book has been successfully used for courses on the topic.

Computer Aided

Verification Springer

Science & Business Media Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our

readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Engineering Springer Science & Business Media The 2nd Annual 2016 International Workshop on Materials Science and Engineering (IWMSE 2016) was held in Guangzhou, Guangdong, China on August 12 - August 14, 2016. The main aim of IWMSE 2016 was to provide a platform for scientists and engineers, to get together to share their research

findings, exchange ideas and identify the future directions of R&D in materials science. In this conference, we have received over 272 high-quality papers, however, only 160 articles are included in the proceedings, covering topics such as ceramics and glasses, amorphous materials, nanomaterials and thin layers, soft magnetic materials, biomaterials, polymers, photovoltaic materials, steels, tool materials, composites, as well as functional and smart

materials.

Popular Science #N/A
 Rock Mechanics and Rock Engineering: From the Past to the Future contains the contributions presented at EUROCK2016, the 2016 International Symposium of the International Society for Rock Mechanics (ISRM 2016, Ürgüp, Cappadocia Region, Turkey, 29-31 August 2016). The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices,

emphasizing the future direction of rock engineering technologies. The 204 accepted papers and eight keynote papers, are grouped into several main sections: - Fundamental rock mechanics - Rock properties and experimental rock mechanics - Analytical and numerical methods in rock engineering - Stability of slopes in civil and mining engineering - Design methodologies and analysis - Rock dynamics, rock mechanics and rock engineering at

historical sites and monuments - Underground excavations in civil and mining engineering - Coupled processes in rock mass for underground storage and waste disposal - Rock mass characterization - Petroleum geomechanics - Carbon dioxide sequestration - Instrumentation-monitoring in rock engineering and back analysis - Risk management, and - the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock

Mechanics and Rock Engineering: From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2016, organized by the Turkish National Society for Rock Mechanics, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

Workshop Processes, Practices and Materials

CRC Press

This book constitutes the

refereed proceedings of the 10th International Conference on Computer Aided Verification, CAV'98, held in Vancouver, BC, Canada, in June/July 1998. The 33 revised full papers and 10 tool papers presented were carefully selected from a total of 117 submissions. Also included are 11 invited contributions. Among the topics covered are modeling and specification formalisms; verification techniques like state-space exploration, model

checking, synthesis, and automated deduction; various verification techniques; applications and case studies, and verification in practice.

Advances in Computational Science and Computing

Springer Science & Business Media
This volume is published as the proceedings of the Russian-German Advanced Research workshop on Computational Science and High Performance Computing in Novosibirsk Akademgorodok in September 2003. The contributions of these

proceedings were provided and edited by the authors, chosen after a careful selection and reviewing. The workshop was organized by the Institute of Computational Technologies SB RAS (Novosibirsk, Russia) and the High Performance Computing Center Stuttgart (Stuttgart, Germany). The objective was the discussion of the latest results in computational science and to develop a close cooperation between Russian and German specialists in the above-

mentioned field. The main directions of the workshop are associated with the problems of computational hydrodynamics, application of mathematical methods to the development of new generation of materials, environment protection problems, development of algorithms, software and hardware support for high-performance computation, and designing modern facilities for visualization of computational modelling results. The

importance of the workshop topics was confirmed by the participation of representatives of major research organizations engaged in the solution of the most complex problems of mathematical modelling, development of new algorithms, programs and key elements of new information technologies. Among the Russian participants were researchers of the Institutes of the Siberian Branch of the Russian Academy of Sciences: Institute of Computational

Technologies, Institute of Computational Mathematics and Mathematical Geophysics, Institute of Computational Modelling, Russian Federal Nuclear Center, All-Russian Research Institute of Experimental Physics, - merovo State University.

Cyclopaedia of Political Science Springer

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future

is going to be better, and science and technology are the driving forces that will help make it better.

Computer Science Logic CRC Press

This book includes papers on the recent advances in state-of-the-art computational science and computing presented at the 2018 International Symposium on Computational Science and Computing (ISCSC 2018), held in Huangshan, China, from 28 to 29 July 2018. All the papers were rigorously peer-reviewed by experts in the area. It

is a valuable resource for researchers, professors, graduate students, as well as R & D staff in the industry with a general interest in computational science and computing.

Cyclopaedia of Political Science, Political Economy, and of the Political History of the United States Springer

Science & Business Media This volume contains the selected papers resulting from the 7th Annual International Workshop on Materials Science and Engineering, and is focusing on the following

six aspects: 1. Various Materials Properties, Processing, and Manufactures; 2. Multifunctional Materials Properties, Processing, and Manufactures; 3. Nanomaterials and Biomaterials; 4. Civil Materials and Sustainable Environment; 5. Electrochemical Valuation, Fracture Resistance, and Assessment; 6. Designs Related to Materials Science and Engineering. This proceeding presents and discusses key concepts and analyzes the state-of-the-art of the

field. IWMSE 2021 is an academic conference in a series held once per year. The conference not only provides insights on materials science and engineering, but also affords conduit for future research in these fields. It provides opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration. *Computational Science — ICCS 2001* Springer Popular Science gives our

readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. **Popular Science** New York : G. Schirmer Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and

science and technology are the driving forces that will help make it better.

Rock Mechanics and Rock Engineering: From the Past to the Future

Hachette Books

LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science, ICCS 2001, held in San Francisco, California, May 27 -31,

2001. The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines, researchers from various application areas who are pioneering advanced application of

computational methods to sciences such as physics, chemistry, life sciences, and engineering, arts and humanitarian fields, along with software developers and vendors, to discuss problems and solutions in the area, to identify new issues, and to shape future directions for research, as well as to help industrial users apply various advanced computational techniques.

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