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NUMERICAL METHODS FOR SEAKEEPING PROBLEMS

Springer Nature The book describes currently applied and newly developed advanced numerical methods for wave-induced ship motions and loads. Besides well-established computational methods based on strip theory, panel methods and finite volume methods for unsteady Reynolds-averaged Navier-Stokes equations (URANS), recent advances like a fully nonlinear Rankine panel method, URANS calculations including elastic hull deformations, and an improved method to predict added resistance in waves are explained in detail. Furthermore, statistical methods to assess extreme motions and loads are described both for linear and nonlinear responses in a stationary seaway as well as during long-term ship operations. Results of motions and loads, computed using the various methods, are compared with each other and with results of model experiments. Introductory chapters on fluid dynamics, motions of rigid and elastic ship hulls, numerical methods to compute fluid flows associated with wind waves, and the development and simulation of seaways complement the volume. The book will be of interest to post-graduate students, PhD candidates, as well as engineers in the field of naval architecture, ocean, and marine engineering.

MATERIALS CHALLENGES IN ALTERNATIVE AND RENEWABLE ENERGY II

John Wiley & Sons The overall efficiency, effectiveness, and practicality of potential future energy sources and systems are directly related to many materials-related factors. This volume features 30 papers presented during the 2012 Materials Challenges in Alternative and Renewable Energy Conference. They cover the latest developments involving materials for alternative and renewable energy sources and

systems, including batteries and energy storage, hydrogen, solar, wind, geothermal, biomass, and nuclear, as well as materials availability, the energy grid, and nanocomposites.

MODELING TECHNIQUES IN PREDICTIVE ANALYTICS

BUSINESS PROBLEMS AND SOLUTIONS WITH R, REVISED AND EXPANDED EDITION

FT Press To succeed with predictive analytics, you must understand it on three levels: Strategy and management Methods and models Technology and code This up-to-the-minute reference thoroughly covers all three categories. Now fully updated, this uniquely accessible book will help you use predictive analytics to solve real business problems and drive real competitive advantage. If you're new to the discipline, it will give you the strong foundation you need to get accurate, actionable results. If you're already a modeler, programmer, or manager, it will teach you crucial skills you don't yet have. Unlike competitive books, this guide illuminates the discipline through realistic vignettes and intuitive data visualizations–not complex math. Thomas W. Miller, leader of Northwestern University's pioneering program in predictive analytics, guides you through defining problems, identifying data, crafting and optimizing models, writing effective R code, interpreting results, and more. Every chapter focuses on one of today's key applications for predictive analytics, delivering skills and knowledge to put models to work–and maximize their value. Reflecting extensive student and instructor feedback, this edition adds five classroom-tested case studies, updates all code for new versions of R, explains code behavior more clearly and completely, and covers modern data science methods even more effectively. All data sets, extensive R code, and additional examples available for download at http://www.ftpress.com/miller If you want to make the most of predictive analytics, data science, and big data, this is the book for you. Thomas W. Miller's unique balanced approach combines business context and quantitative tools, appealing to managers, analysts, programmers, and students alike. Miller addresses multiple business cases and challenges, including segmentation, brand positioning, product choice modeling, pricing research, finance, sports, text analytics, sentiment analysis, and social network analysis. He illuminates the use of cross-sectional data, time series, spatial, and spatio-temporal data. You'll learn why each problem matters, what data are relevant, and how to explore the data you've identified. Miller guides you through conceptually modeling each data set with words and figures; and then modeling it again with realistic R programs that deliver actionable insights. You'll walk through model construction, explanatory variable subset selection, and validation, mastering best practices for improving out-of-sample predictive performance. Throughout, Miller employs data visualization and statistical graphics to help you explore data, present models, and evaluate performance. This edition adds five new case studies, updates all code for the newest versions of R, adds more commenting to clarify how the code works, and offers a more detailed and up-to-date primer on data science methods. Gain powerful, actionable, profitable insights about: Advertising and promotion Consumer preference and choice Market baskets and related purchases Economic forecasting

Operations management Unstructured text and language Customer sentiment Brand and price Sports team performance And much more

RESIDUAL STRESS, THERMOMECHANICS & INFRARED IMAGING, HYBRID TECHNIQUES AND INVERSE PROBLEMS, VOLUME 9

PROCEEDINGS OF THE 2016 ANNUAL CONFERENCE ON EXPERIMENTAL AND APPLIED MECHANICS

Springer Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 9 of the Proceedings of the 2016 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the ninth volume of ten from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of areas, including: Damage Analysis from Thermal Measurements Quantitative Visualization Stress Analysis from Thermal Measurements New Approaches to Residual Stress Measurement Residual Stress & Optical Methods Non-homogeneous Parameters Identification General Inverse Methods Residual Stress Measurement by X-Ray Diffraction

YY/T 1302.2-2015: TRANSLATED ENGLISH OF CHINESE STANDARD. YY/T1302.2-2015

PHYSICAL REQUIREMENTS AND MICROBIOLOGICAL PERFORMANCE OF ETHYLENE OXIDE STERILIZATION - PART 2: MICROBIOLOGICAL ASPECTS [AFTER PAYMENT, WRITE TO & GET A FREE-OF-CHARGE, UNPROTECTED TRUE-PDF FROM: SALES@CHINESESTANDARD.NET]

https://www.chinesestandard.net [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This part of YY/T 1302 specifies process definition, validation, process effectiveness maintenance, etc. for the microbiological aspects of ethylene oxide sterilization. This part applies to the ethylene oxide sterilization process for medical devices and other related products or materials, provides solutions to various microbiological aspects in the development and validation of ethylene oxide (EO) sterilization processes.

FINITE VOLUMES FOR COMPLEX APPLICATIONS VI PROBLEMS & PERSPECTIVES

FVCA 6, INTERNATIONAL SYMPOSIUM, PRAGUE, JUNE 6-10, 2011

Springer Science & Business Media Finite volume methods are used for various applications in fluid dynamics, magnetohydrodynamics, structural analysis or nuclear physics. A closer look reveals many interesting phenomena and mathematical or numerical difficulties, such as true error analysis and adaptivity, modelling of multi-phase phenomena or fitting problems, stiff terms in convection/diffusion equations and sources. To overcome existing problems and to find solution methods for future applications requires many efforts and always new developments. The goal of The

International Symposium on Finite Volumes for Complex Applications VI is to bring together mathematicians, physicists and engineers dealing with Finite Volume Techniques in a wide context. This book, divided in two volumes, brings a critical look at the subject (new ideas, limits or drawbacks of methods, theoretical as well as applied topics).

TMS 2020 149TH ANNUAL MEETING & EXHIBITION SUPPLEMENTAL PROCEEDINGS

Springer Nature This collection presents papers from the 149th Annual Meeting & Exhibition of The Minerals, Metals & Materials Society.

STATISTICAL CHALLENGES IN ASTRONOMY

Springer Science & Business Media Digital sky surveys, high-precision astrometry from satellite data, deep-space data from orbiting telescopes, and the like have all increased the quantity and quality of astronomical data by orders of magnitude per year for several years. Making sense of this wealth of data requires sophisticated statistical techniques. Fortunately, statistical methodologies have similarly made great strides in recent years. Powerful synergies thus emerge when astronomers and statisticians join in examining astrostatistical problems and approaches. The book begins with an historical overview and tutorial articles on basic cosmology for statisticians and the principles of Bayesian analysis for astronomers. As in earlier volumes in this series, research contributions discussing topics in one field are joined with commentary from scholars in the other. Thus, for example, an overview of Bayesian methods for Poissonian data is joined by discussions of planning astronomical observations with optimal efficiency and nested models to deal with instrumental effects. The principal theme for the volume is the statistical methods needed to model fundamental characteristics of the early universe on its largest scales.

NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS, OPTIMIZATION, AND TECHNOLOGICAL PROBLEMS

DEDICATED TO PROFESSOR P. NEITTAANMÄKI ON HIS 60TH BIRTHDAY

Springer Science & Business Media This book contains the results in numerical analysis and optimization presented at the ECCOMAS thematic conference "Computational Analysis and Optimization" (CAO 2011) held in Jyväskylä, Finland, June 9–11, 2011. Both the conference and this volume are dedicated to Professor Pekka Neittaanmäki on the occasion of his sixtieth birthday. It consists of five parts that are closely related to his scientific activities and interests: Numerical Methods for Nonlinear Problems; Reliable Methods for Computer Simulation; Analysis of Noised and Uncertain Data; Optimization Methods; Mathematical Models Generated by Modern Technological Problems. The book also includes a short biography of Professor Neittaanmäki.

RESEARCH METHODOLOGY BY DR. ALOK GUPTA, NITIN GUPTA

SBPD PUBLICATIONS

SBPD Publications 1. Research Method, 2. Research Process, 3. Testing of Hypothesis, 4. Sampling Fundamentals, 5. Sampling Designs, 6. Measurement-I, 7. Measurement-II, 8. Data Collection-I, 9. Data Collection-II, 10. Processing of Data, 11. Test of Significance-I, 12. Test of Significance-II, 13. Test of Significance-III, 14. Non-Parametric Tests, 15. Report Preparation-I, 16. Report Preparation-II.

OPTIMIZED BROTH MICRODILUTION PLATE METHODOLOGY FOR DRUG SUSCEPTIBILITY TESTING OF MYCOBACTERIUM TUBERCULOSIS COMPLEX

World Health Organization

BIODEFENSE RESEARCH METHODOLOGY AND ANIMAL MODELS, SECOND EDITION

CRC Press Significant advances have been made in animal model development for biological research since the publication of the first edition of this volume, and the ramifications of the FDA's Animal Efficacy Rule have become better understood in the scientific community. With each chapter completely updated with the latest research findings, Biodefense Research Methodology and Animal Models, Second Edition spans the spectrum of coverage from basic research to advanced development of medical countermeasures. Topics discussed in this volume include: A history of biological agents as weapons, from the use of corpses to contaminate water supplies to modern day anthrax attacks Concepts and strategies involved in biowarfare and bioterrorism The development, validation, and importance of animal models in biodefense research Infectious disease aerobiology Studies involving anthrax, glanders, plague, tularemia, Q fever, alphaviruses, orthopoxviruses, and a new chapter on brucellosis Animal models for viral hemorrhagic fevers Botulinum and Ricin toxins Staphylococcal and streptococcal superantigens As the scientific community works diligently to protect the world's population from the misuse of infectious organisms and toxins, it is imperative that researchers stay abreast of the latest techniques for biodefense research. Exploring in vivo and in vitro assays, this volume brings researchers up to date on the latest information on bacterial and viral infectious agents and biological toxins considered to pose the greatest threats to public safety. In addition, the contributors take a step toward minimizing the use of animals in further experiments by presenting documented findings that can be built upon.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

CLIFFSNOTES PRAXIS II: MATHEMATICS CONTENT KNOWLEDGE TEST (0061), SECOND EDITION

Houghton Mifflin Harcourt The valuable test prep guide—now in an updated edition Includes subject review chapters for every subject covered on the test 3 full-length tests with complete answer explanations

ROBUST ELECTRONIC DESIGN REFERENCE BOOK: NO SPECIAL TITLE

Springer Science & Business Media If you design electronics for a living, you need Robust Electronic Design Reference Book. Written by a working engineer, who has put over 115 electronic products into production at Sycor, IBM, and Lexmark, Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that: -Work. -Are safe and reliable. -Can be manufactured, tested, repaired, and serviced. -May be sold and used worldwide. -Can be adapted or enhanced to meet new and changing requirements.

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

PRINCIPLES OF TESTING ELECTRONIC SYSTEMS

John Wiley & Sons A pragmatic approach to testing electronic systems As we move ahead in the electronic age, rapid changes in technology pose an ever-increasing number of challenges in testing electronic products. Many practicing engineers are involved in this arena, but few have a chance to study the field in a systematic way-learning takes place on the job. By covering the fundamental disciplines in detail, Principles of Testing Electronic Systems provides design engineers with the much-

*needed knowledge base. Divided into five major parts, this highly useful reference relates design and tests to the development of reliable electronic products; shows the main vehicles for design verification; examines designs that facilitate testing; and investigates how testing is applied to random logic, memories, FPGAs, and microprocessors. Finally, the last part offers coverage of advanced test solutions for today's very deep submicron designs. The authors take a phenomenological approach to the subject matter while providing readers with plenty of opportunities to explore the foundation in detail. Special features include: * An explanation of where a test belongs in the design flow * Detailed discussion of scan-path and ordering of scan-chains * BIST solutions for embedded logic and memory blocks * Test methodologies for FPGAs * A chapter on testing system on a chip * Numerous references*

BASIC RESEARCH AND TECHNOLOGIES FOR TWO-STAGE-TO-ORBIT VEHICLES

FINAL REPORT OF THE COLLABORATIVE RESEARCH CENTRES 253, 255 AND 259

John Wiley & Sons Focusing on basic aspects of future reusable space transportation systems and covering overall design, aerodynamics, thermodynamics, flight dynamics, propulsion, materials, and structures, this report presents some of the most recent results obtained in these disciplines. The authors are members of three Collaborative Research Centers in Aachen, Munich and Stuttgart concerned with hypersonic vehicles. A major part of the research presented here deals with experimental and numerical aerodynamic topics ranging from low speed to hypersonic flow past the external configuration and through inlet and nozzle. Mathematicians and engineers jointly worked on aspects of flight mechanics like trajectory optimization, stability, control and flying qualities. Structural research and development was predominantly coupled to the needs for high temperature resistant structures for space vehicles.

THE SAGE ENCYCLOPEDIA OF QUALITATIVE RESEARCH METHODS: A-L ; VOL. 2, M-Z INDEX

SAGE

RESEARCH METHODS FOR COUNSELING

AN INTRODUCTION

SAGE Research Methods for Counseling: An Introduction provides a rich, culturally sensitive presentation of current research techniques in counseling. Author Robert J. Wright introduces the theory and research involved in research design, measurement, and assessment with an appealingly clear writing style. He addresses ways to meet the requirements of providing the data needed to facilitate evidence-based therapy and interventions with clients, and also explains methods for the evaluation of counseling programs and practices. This comprehensive resource

covers a broad range of research methods topics including qualitative research, action research, quantitative research including, sampling and probability, and probability-based hypothesis testing. Coverage of both action research and mixed methods research designs are also included.

RESOURCES IN EDUCATION

COMPUTER ENGINEERING: CONCEPTS, METHODOLOGIES, TOOLS AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS AND APPLICATIONS

IGI Global "This reference is a broad, multi-volume collection of the best recent works published under the umbrella of computer engineering, including perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field"--Provided by publisher.

BIOMETRICS IN IDENTITY MANAGEMENT

CONCEPTS TO APPLICATIONS

Artech House In todayOCOs digital infrastructure we have to interact with an increasing number of systems, both in the physical and virtual world. Identity management (IdM) -- the process of identifying an individual and controlling access to resources based on their associated privileges -- is becoming progressively complex. This has brought the spotlight on the importance of effective and efficient means of ascertaining an individualOCOs identity. Biometric technologies like fingerprint recognition, face recognition, iris recognition etc. have a long history of use in law enforcement applications and are now transitioning towards commercial applications like password replacements, ATM authentication and others.This unique book provides you with comprehensive coverage of commercially available biometric technologies, their underlying principles, operational challenges and benefits, and deployment considerations. It also offers a look at the future direction these technologies are taking. By focusing on factors that drive the practical implementation of biometric technologies, this book serves to bridge the gap between academic researchers and industry practitioners. This book focuses on design, development, and deployment issues related to biometric technologies, including operational challenges, integration strategies, technical evaluations of biometric systems, standardization and privacy preserving principles, and several open questions which need to be answered for successful deployments."

TREATMENT APPROACHES FOR ALCOHOL AND DRUG DEPENDENCE

AN INTRODUCTORY GUIDE

John Wiley & Sons The first edition of this book was based upon the recommendations of the Quality Assurance in the Treatment of Drug Dependence Project, and provided a step-by-step-guide for therapists working with clients with

alcohol or other drug dependency or misuse. Since publication in 1995 it has become well known for its easy-to-read style and wealth of practical resource materials. However, the evidence in the field has moved forward in the last eight years, creating a need for an updated edition. Retaining the trademark easy-to-use, up-to-date style, the Second Edition offers new chapters on pharmacotherapies, case management, young people, and dual diagnosis. Other chapters have been updated to reflect the latest research findings and current practice, and the practice sheets and client handouts are made available online for downloading and customization by therapists.

INTELLIGENT TECHNOLOGIES

THEORY AND APPLICATIONS : NEW TRENDS IN INTELLIGENT TECHNOLOGIES

IOS Press This volume includes theoretical, as well as applicational, papers in the field of neural networks, fuzzy systems and mainly evolutionary computations in which application potential was increased by enormous progress in computer power. The book presents papers from Japan, USA, Hungary, Poland, Germany, Finland, France, Slovakia, UK, Czech Republic and some other countries. It describes the state of the art in the field and contributes to theory and applications in the field of machine intelligence tools and their wide application potential in current and future technologies within the information society.

NEW TRENDS IN SOFTWARE METHODOLOGIES, TOOLS AND TECHNIQUES

IOS Press Part of SoMet series, this book contains reviewed papers given at the Seventh International Conference on New Trends in Software Methodology Tools, and Techniques (SoMeT_08) held in Sharjah, United Arab Emirates. It addresses handling of cognitive issues on software development to adapt to user mental state.

COMPUTATIONAL INTELLIGENCE IN SOFTWARE MODELING

Walter de Gruyter GmbH & Co KG Researchers, academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering. As software systems are becoming larger and complex, software engineering tasks become increasingly costly and prone to errors. Evolutionary algorithms, machine learning approaches, meta-heuristic algorithms, and others techniques can help the effi ciency of software engineering.

SOFTWARE APPLICATIONS: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

MATHEMATICA LABORATORIES FOR MATHEMATICAL STATISTICS

EMPHASIZING SIMULATION AND COMPUTER INTENSIVE METHODS

SIAM Integrating computers into mathematical statistics courses allows students to simulate experiments and visualize their results, handle larger data sets, analyze data more quickly, and compare the results of classical methods of data analysis with those using alternative techniques. This text presents a concise introduction to the concepts of probability theory and mathematical statistics. The accompanying in-class and take-home computer laboratory activities reinforce the techniques introduced in the text and are accessible to students with little or no experience with Mathematica. These laboratory materials present applications in a variety of real-world settings, with data from epidemiology, environmental sciences, medicine, social sciences, physical sciences, manufacturing, engineering, marketing, and sports. Mathematica Laboratories for Mathematical Statistics: Emphasizing Simulation and Computer Intensive Methods includes parametric, nonparametric, permutation, bootstrap and diagnostic methods. Chapters on permutation and bootstrap techniques follow the formal inference chapters and precede the chapters on intermediate-level topics. Permutation and bootstrap methods are discussed side by side with classical methods in the later chapters.

THE NONRESPONSE CHALLENGE TO SURVEYS AND STATISTICS

SAGE Surveys are the principal source of data not only for social science, but for consumer research, political polling, and federal statistics. In response to social and technological trends, rates of survey nonresponse have risen markedly in recent years, prompting observers to worry about the continued validity of surveys as a tool for data gathering. Newspaper stories, magazine articles, radio programs, television broadcasts, and Internet blogs are filled with data derived from surveys of one sort or another. Reputable media outlets generally indicate whether a survey is representative, but much of the data routinely bandied about in the media and on the Internet are not based on representative samples and are of dubious use in making accurate statements about the populations they purport to represent. Surveys are social interactions, and like all interactions between people, they are embedded within social structures and guided by shared cultural understandings. This issue of The ANNALS examines the difficulties with finding willing respondents to these surveys and how the changing structure of society, whether it be the changing family structure, mass immigration, rising inequality, or the rise of technology, has presented new issues to conducting surveys. This volume will be of interest to faculty and students who specialize in sociological movements as well as economic and immigration movements and its effect on surveying.

ADVANCES IN NUMERICAL PARTIAL DIFFERENTIAL EQUATIONS AND OPTIMIZATION

PROCEEDINGS OF THE FIFTH MEXICO-UNITED STATES WORKSHOP

SIAM The papers in this volume emphasize the numerical aspects of three main

areas: optimization, linear algebra and partial differential equations. Held in January, 1989, in Yucatan, Mexico, the workshop was organized by the Institute for Research in Applied Mathematics of the National University of Mexico in collaboration with the mathematical Sciences Department at Rice University.

INNOVATIONS AND ADVANCED TECHNIQUES IN SYSTEMS, COMPUTING SCIENCES AND SOFTWARE ENGINEERING

Springer Science & Business Media Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

ENTERPRISE INTEROPERABILITY II

NEW CHALLENGES AND APPROACHES

Springer Science & Business Media This volume provides a concise reference to the state-of-the-art in software interoperability. Composed of over 90 papers, Enterprise Interoperability II ranges from academic research through case studies to industrial and administrative experience of interoperability. The international nature of the authorship continues to broaden. Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas.

APPROXIMATION, RANDOMIZATION AND COMBINATORIAL OPTIMIZATION. ALGORITHMS AND TECHNIQUES

11TH INTERNATIONAL WORKSHOP, APPROX 2008 AND 12TH INTERNATIONAL WORKSHOP, RANDOM 2008, BOSTON, MA, USA, AUGUST 25-27, 2008

Springer Science & Business Media This book constitutes the joint refereed proceedings of the 11th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems, APPROX 2008 and the 12th International Workshop on Randomization and Computation, RANDOM 2008, held in Boston, MA, USA, in August 2008. The 20 revised full papers of the APPROX 2008 workshop were carefully reviewed and selected from 42 submissions and focus on algorithmic and complexity issues surrounding the development of efficient approximate solutions to computationally difficult problems. RANDOM 2008 is concerned with applications of randomness to computational and combinatorial problems and accounts for 27 revised full papers, also diligently reviewed and selected out of 52 workshop submissions.

ENCYCLOPAEDIA OF MATHEMATICS, SUPPLEMENT III

Springer Science & Business Media This is the third supplementary volume to Kluwer's highly acclaimed twelve-volume Encyclopaedia of Mathematics. This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes. These entries are arranged alphabetically throughout and a detailed index is included. This supplementary volume enhances the existing twelve volumes, and together, these thirteen volumes represent the most authoritative, comprehensive and up-to-date Encyclopaedia of Mathematics available.

BULLETIN OF THE MEDICAL LIBRARY ASSOCIATION

FM 2006: FORMAL METHODS

14TH INTERNATIONAL SYMPOSIUM ON FORMAL METHODS, HAMILTON, CANADA, AUGUST 21-27, 2006, PROCEEDINGS

Springer Science & Business Media This book presents the refereed proceedings of the 14th International Symposium on Formal Methods, FM 2006, held in Hamilton, Canada, August 2006. The book presents 36 revised full papers together with 2 invited contributions and extended abstracts of 7 invited industrial presentations, organized in topical sections on interactive verification, formal modelling of systems, real time, industrial experience, specification and refinement, programming languages, algebra, formal modelling of systems, and more.

HAYES' PRINCIPLES AND METHODS OF TOXICOLOGY, SIXTH EDITION

CRC Press Hayes' Principles and Methods of Toxicology has long been established as a reliable reference to the concepts, methodologies, and assessments integral to toxicology. The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field. With new authors and new chapters that address the advances and developments since the fifth edition, the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity, enabling them to better assess risk. The book begins with the four basic principles of toxicology—dose matters, people differ, everything transforms, and timing is crucial. The contributors discuss various agents of toxicity, including foodborne, solvents, crop protection chemicals, radiation, and plant and animal toxins. They examine various methods for defining and measuring toxicity in a host of areas, including genetics, carcinogenicity, toxicity in major body systems, and the environment. This new edition contains an expanded glossary reflecting significant changes in the field. New topics in this edition include: The importance of dose–response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one-stop reference for professionals.

INNOVATION FOR SUSTAINABLE AVIATION IN A GLOBAL ENVIRONMENT

PROCEEDINGS OF THE SIXTH EUROPEAN AERONAUTICS DAYS, MADRID, 30 MARCH - 1 APRIL, 2011

IOS Press "This book, published by the European Commission, brings together about 80 papers selected by a Scientific Advisory Committee with the intention to make broadly known the main themes and issues addressed on the occasion of this Convention. Given the strategic importance of the latter, these post-conference proceedings constitute a reference document providing an overview on aeronautical research within Europe more particularly devoted to Commission supported programmes and networks"--Back cover.

IMPACT EVALUATION IN PRACTICE, SECOND EDITION

World Bank Publications The second edition of the Impact Evaluation in Practice handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development.