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"These conference proceedings present recent advances in the relevant theory and practice of HF Systems. Both the historical, current and future perspectives of HF are discussed, including pioneering achievements, military and commercial systems and, trends and expectations of HF services. Other topics covered are propagation, noise and interference; signal design and

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processing; antennas and couplers; transmitters and receivers; HF Radar; EW systems and location techniques; HF broadcasting."

This title focuses on the spectroscopy and dynamics of microparticles, and considers the chemistry of microparticles in a range of environments.

Identification of biological microparticles using ultrafast depletion spectroscopy
Vibrational exciton coupling in pure and composite sulphur dioxide aerosols

13th International Workshop, Cambridge, UK, April 20-22, 2005, Revised Selected Papers

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A Universal Reference Library Comprising the Arts and Sciences, Literature, History, Biography,

Geography, Commerce, Etc., of the World

Fourier Analysis on Finite Groups and Applications

New Scientist

Acta cybernetica

The Spectroscopy and Dynamics of Microparticles

Proceedings of the International Conference in

Emerging Trends in Engineering, Science and

Technology (ICETEST 2018), January 18-20, 2018,

Thrissur, Kerala, India

Carbon and glass fibre reinforced composite

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materials have been used for many years in several different types of applications. However, these conventional composites are derived from non-renewable reinforcements and they pose a significant threat to the environment. Government legislation and consumer behaviour have recently forced many industries to adapt sustainable composites. Industries such as automotive, marine and aerospace are now seeking sustainable lightweight composites with the aim to reduce the overall weight of the components with enhanced materials and design aspects. Therefore, there is high demand on research for the development of

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sustainable lightweight composites. This book presents a comprehensive review of lightweight composites with the central aim to increase their use in key industrial sectors such as automotive, marine and aerospace. There is no such book currently available that is dedicated to sustainable lightweight applications covering important topics such as key drivers for lightweight composites, mechanical properties, damage characterisation, durability and environmental aspects. Key topics that are addressed include: The roles of reinforcements and matrices in composite materials Sustainable natural fibre reinforcements and their morphological

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structures Lightweight applications and properties requirements Design, manufacturing processes and their effects on properties Testing and damage characterisation of composite materials Sustainable composites and techniques for property enhancement Future trends and challenges for sustainable composites in lightweight applications It will be a valuable reference resource for those working in material Science, polymer science, materials engineering, and industries involved in the manufacture of automotive and aerospace components from lightweight composite materials. Provides a comprehensive review of sustainable

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lightweight composites looking at key industrial applications such as automotive, marine, and aerospace and construction Important relationships between structure and properties are analysed in detail Enhancement of properties through hybrid systems, are also explored with emphasis on design, materials selection and manufacturing techniques These proceedings consist of the latest advances in the field of monitoring and modelling urban air quality. Although air pollution has been of interest for many decades over the past few years the concerns of urban air quality have increased dramatically. The primary reason for this has been

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the continual growth in road traffic in almost all urban centres in the world. Consequently, the need for reliable methods for monitoring and modelling urban air quality has now been identified as a priority by many national and local governments. The current proceedings include the papers presented at the first international conference on this topic. The success of this conference has led to the organisation of the second meeting in Madrid, 3-5 March, 1999. This book will be invaluable to researchers and consultants in academic, industrial and commercial sectors.

Emerging Technology in Fluids, Structures, and

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Fluid-structure Interactions--2004

A Field Guide to Genetic Programming

A Biographical Guide to Science, Technology, Agriculture, and Medicine

Ninth International Conference on HF Radio Systems and Techniques, 23rd - 26th June 2003, University of Bath

The Journal of the Publishing Industry

The Journal of Offshore Technology

Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment

New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific

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discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

This book constitutes the refereed proceedings of the Second International Symposium on Stochastic Algorithms: Foundations and Applications, SAGA 2003, held in Hatfield, UK in September 2003. The 12 revised full papers presented together with three invited papers were carefully reviewed and selected for inclusion in the book. Among the topics addressed are ant colony optimization, randomized algorithms for the intersection problem, local search for constraint satisfaction

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problems, randomized local search and combinatorial optimization, simulated annealing, probabilistic global search, network communication complexity, open shop scheduling, aircraft routing, traffic control, randomized straight-line programs, and stochastic automata and probabilistic transformations.

Emerging Technologies in Fluids, Structures, and Fluid/structure Interactions

Proceedings of the First International Conference on Advances in Structural Engineering and Mechanics

Computational Electromagnetics for RF and Microwave Engineering

**British National Bibliography for Report Literature
The Publisher**

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Ninth International Conference on QCMC

Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society

An Introduction to Computational Geometry for Curves and Surfaces Oxford University Press, USA

The finite element method is a technique for solving problems in applied science and engineering. The essence of this book is the application of the finite element method to the solution of boundary and initial-value problems posed in terms of partial differential equations. The method is developed for the solution of Poisson's equation, in a weighted-residual context, and then

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proceeds to time-dependent and nonlinear problems. The relationship with the variational approach is also explained. This book is written at an introductory level, developing all the necessary concepts where required. Consequently, it is well-placed to be used as a textbook for a course in finite elements for final year undergraduates, the usual place for studying finite elements. There are worked examples throughout and each chapter has a set of exercises with detailed solutions.

Faraday Discussions No 137

Applications of Automata Theory and Algebra

23-25 August 1999, Seoul, Korea

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Digital Eco-Systems

Sustainable Composites for Lightweight Applications

Documentation Abstracts

The Encyclopedia Americana

This book constitutes the thoroughly refereed post-proceedings of the 13th International Workshop on Security Protocols, held in Cambridge, UK, in April 2005. There are 24 revised full papers presented together with edited transcriptions of some of the discussions following the presentations. Among the

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topics addressed are authentication, anonymity, cryptographics and biometrics, cryptographic protocols, network security, privacy, SPKI, user-friendliness, and access control.

The International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) was held at the Government Engineering College, Thrissur, Kerala, India, from 18th to 20th January 2018, with the theme, "Society, Energy and Environment", covering related topics in the areas of Civil Engineering, Mechanical

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Engineering, Electrical Engineering, Chemical Engineering, Electronics & Communication Engineering, Computer Science and Architecture. Conflict between energy and environment has been of global significance in recent years. Academic research needs to support the industry and society through socially and environmentally sustainable outcomes. ICETEST 2018 was organized with this specific objective. The conference provided a platform for researchers from different domains, to discuss and

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disseminate their findings. Outstanding speakers, faculties, and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies.

Presented at the 2004 ASME/JSME Pressure Vessels and Piping Conference : San Diego, California, USA, July 25-29, 2004

Metals Abstracts

Monitoring and Modelling : Proceedings of the First International Conference on Urban Air Quality: Monitoring and

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*Modelling, University of Hertfordshire,
Hatfield, U.K., 11-12 July 1996*

The Structural Engineer

*Second International Symposium, SAGA 2003,
Hatfield, UK, September 22-23, 2003,*

Proceedings

BNBRL

*International Journal of Electrical
Engineering Education*

1 The Third International OPAALS Conference was an opportunity to explore and discuss digital ecosystem research issues as well as emerging and future trends in the

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field. The conference was organized by IPTI – Instituto de Pesquisas em Tecnologia e Inovação (www. ipti. org. br). IPTI is a member of the OPAALS Framework Programme 7 Network of Excellence, which is led by the London School of Economics and Political Science. OPAALS is a multi-disciplinary research network of excellence for developing the science and technology behind digital ecosystems. The conference was held within the scope of a broader EU – Brazil bilateral workshop hosted by IPTI in cooperation with the Brazilian government and the European Commission and designed to foster EU support of information and communications

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technologies (ICT) enablement and socio-economic development in Brazil. The event was held in the city of Aracaj ú , Sergipe, in the northeast of Brazil, during March 22 – 23, 2010. Aracaj ú is the capital of the state of Sergipe and is located on the coast, a tropical region with lush vegetation, rivers and mangroves and an economic landscape dominated by fisheries, tourism and the challenges associated with fostering local economic development in the presence of low ICT penetration. Digital ecosystems (DEs) in some ways represent the next generation of ICT and Internet usage. Applicable to many contexts, they will perhaps have the greatest effect in

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enabling small and medium-sized enterprises (SMEs) to compete on the global stage.

Comprises of the proceedings of the ASME/JSME Pressure Vessels and Piping Conference, July 25-29, 2004, San Diego, California. This volume consists of 25 papers. The topics covered include: dynamics of explosive detonation, materials and structures; and advances in materials and structures.

Higher Education in the UK.

An Introduction to Computational Geometry for Curves and Surfaces

Quantum Communication, Measurement and Computing

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(QCMC)

Information Processing in Cells and Tissues

Water and maritime engineering

A Universal Reference Library, Comprising the Arts and Sciences, Literature, History, Biography, Geography, Commerce, Etc., of the World

Combinatorics: Ancient & Modern

Who first presented Pascal's triangle? (It was not Pascal.) Who first presented Hamiltonian graphs? (It was not Hamilton.) Who first presented Steiner triple systems? (It was not Steiner.) The history of mathematics is a well-studied and vibrant area of research, with books and scholarly articles published

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on various aspects of the subject. Yet, the history of combinatorics seems to have been largely overlooked. This book goes some way to redress this and serves two main purposes: 1) it constitutes the first book-length survey of the history of combinatorics; and 2) it assembles, for the first time in a single source, researches on the history of combinatorics that would otherwise be inaccessible to the general reader. Individual chapters have been contributed by sixteen experts. The book opens with an introduction by Donald E. Knuth to two thousand years of combinatorics. This is followed by seven chapters on early combinatorics, leading from Indian and Chinese writings on permutations to late-

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Renaissance publications on the arithmetical triangle. The next seven chapters trace the subsequent story, from Euler's contributions to such wide-ranging topics as partitions, polyhedra, and latin squares to the 20th century advances in combinatorial set theory, enumeration, and graph theory. The book concludes with some combinatorial reflections by the distinguished combinatorialist, Peter J. Cameron. This book is not expected to be read from cover to cover, although it can be. Rather, it aims to serve as a valuable resource to a variety of audiences. Combinatorialists with little or no knowledge about the development of their subject will find the historical treatment stimulating. A historian of

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mathematics will view its assorted surveys as an encouragement for further research in combinatorics. The more general reader will discover an introduction to a fascinating and too little known subject that continues to stimulate and inspire the work of scholars today.

The volume contains the proceedings of the 2008 International Conference on Quantum Communication, Measurement and Computing. This meeting has been the leading conference in the field for more than two decades. The articles cover quantum information theory, quantum optics, quantum cryptography, experimental tools for quantum information science and related subjects.

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Security Protocols

Via the Mathematical Theory of Complexity to Biology, Physics, Psychology, Philosophy, and Games

The Americana

Journal of the Institution of Structural Engineers

An Introduction with Partial Differential Equations

Stochastic Algorithms: Foundations and Applications

Presented at the ... ASME Pressure Vessels and Piping Conference

This is an introductory textbook for undergraduates studying mathematics, engineering, or computer science, and explains how differential and computational geometry are used to explain the mathematics of curves and surfaces. It assumes only

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a basic knowledge of vector and matrix algebra, and is filled with numerous exercises, solutions, and worked examples. Ideal for those interested in computer graphics or computer-aided design, this book will be invaluable for those needing to understand the complex mathematics which lies behind these important areas of application.

This book constitutes the refereed proceedings of the 9th International Conference on Information in Cells and Tissues, IPCAT 2012, held in Cambridge, UK, in March/April 2012. The 13 revised full papers presented together with 26 extended abstracts were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics

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in disciplines related to genetic and epigenetic networks, transcriptomics and gene regulation, signalling pathways and responses, protein structure and metabolic networks, patterning and rhythm generation, neural modelling and neural networks, biomedical modelling and signal processing, information processing and representation, and algorithmic approaches in computational biology.

Proceedings of the Institution of Civil Engineers

Who's who in Science in Europe

The Finite Element Method

Third International Conference, OPAALS 2010,

Aracujú, Sergipe, Brazil, March 22-23, 2010, Revised

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Selected Papers

Urban Air Quality: Monitoring and Modelling

Paris, France, October 29-November 1, 1992

This book was originally written in 1969 by Berkeley mathematician John Rhodes. It is the founding work in what is now called algebraic engineering, an emerging field created by using the unifying scheme of finite state machine models and their complexity to tie together many fields: finite group theory, semigroup theory, automata and sequential machine theory, finite phase space physics, metabolic and evolutionary biology, epistemology, mathematical theory of psychoanalysis, philosophy and game theory. The author thus introduced a completely original algebraic approach to complexity and the understanding of finite systems. The unpublished manuscript, often referred to as "The

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Wild Book," became an underground classic, continually requested in manuscript form, and read by many leading researchers in mathematics, complex systems, artificial intelligence, and system biology. Yet it has never been available in print until now. This first published edition has been edited and updated by Chrystopher Nehaniv for the 21st century. Its novel and rigorous development of the mathematical theory of complexity via algebraic automata theory reveals deep and unexpected connections between algebra (semigroups) and areas of science and engineering. Co-founded by John Rhodes and Kenneth Krohn in 1962, algebraic automata theory has grown into a vibrant area of research, including the complexity of automata, and semigroups and machines from an algebraic viewpoint, and which also touches on infinite groups, and other areas of algebra. This book sets the stage for the application

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of algebraic automata theory to areas outside mathematics. The material and references have been brought up to date by the editor as much as possible, yet the book retains its distinct character, the bold yet rigorous style of the author. Included are treatments of topics such as models of time as algebra via semigroup theory; evolution-complexity relations applicable to both ontogeny and phylogenesis; an approach to classification of biological reactions and metabolic pathways; the relationships among coordinate systems, symmetry and conservation principles in physics; discussion of "punctuated equilibrium" (prior to Stephen Jay Gould); games; and application of algebra to psychology, psychoanalysis, epistemology, and the purpose of human life. The approach and contents will be of interest to a variety of researchers and students in algebra as well as to the diverse, rapidly growing areas of applications of algebra in science and

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engineering. Moreover, many parts of the book will be intelligible to non-mathematicians, including students and experts from diverse backgrounds.

This hands-on introduction to computational electromagnetics (CEM) links theoretical coverage of the three key methods - the FDTD, MoM and FEM - to open source MATLAB codes (freely available online) in 1D, 2D and 3D, together with many practical hints and tips gleaned from the author's 25 years of experience in the field. Updated and extensively revised, this second edition includes a new chapter on 1D FEM analysis, and extended 3D treatments of the FDTD, MoM and FEM, with entirely new 3D MATLAB codes. Coverage of higher-order finite elements in 1D, 2D and 3D is also provided, with supporting code, in addition to a detailed 1D example of the FDTD from a FEM perspective. With

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running examples through the book and end-of-chapter problems aid understanding, this is ideal for professional engineers and senior undergraduate/graduate students who need to master C and avoid common pitfalls in writing code and using existing software.

9th International Conference, IPCAT 2012, Cambridge, UK, March 31 -- April 2, 2012, Proceedings

Proceedings

Who's who in European Research and Development

Students' Guide to Research in UK Universities and Colleges.

Research opportunities

The British National Bibliography

It examines the theory of finite groups in a manner that is both accessible to the

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beginner and suitable for graduate research.

Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the

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user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See www.gp-field-guide.org.uk for more information on the book.