

A 16 Element Reflection Grid Amplifier With Improved Heat

This volume contains the papers presented at the title conference. Speakers from 13 different countries were represented at the meeting. A broad range of topics in theoretical and applied wave propagation is covered.

The current economic crisis is cutting the automotive sector to the quick. Public authorities worldwide are now faced with requests for providing loans and accepting guarantees and even for putting large automotive companies under state control. Assessing the long-term benefits of such help and weighing the needs of different sectors against each other poses a major challenge for the national policies. Given the upcoming change of customer preferences and state regulations towards safety, sustainability and comfort of a car, the automotive industry is particularly called to prove its ability to make necessary innovations available in order to accelerate its pace to come out of the crisis. Consequently the Green Car is assuming a prominent role in the current debate. Various power train concepts are currently under discussion for the Green Car including extremely optimised internal combustion engines, hybrid drives and battery-electric traction. Electrical cars are the most appealing option because they are free of local emissions and provide the opportunity to use primary energy from sources other than crude oil for transport. Well to wheel analysis show that their greenhouse gas emissions can be rated negligibly small if electricity from renewable sources like wind and solar is used.

This study determines the degree of susceptibility of the proposed Barbers Point Deep-draft Pearl Harbor on Oahu Island, Hawaii, to tsunami waves. A finite-difference numerical model was developed to simulate the action of long-period waves within the harbor. This model included the effects of bottom friction, lateral mixing of momentum, radiation losses to the outside ocean, and the flooding of surrounding land areas. A large number of cases were simulated, representing tsunami inputs that could be expected in the area. The resulting water elevations, land flooding, and water movement are presented. The response of the harbor to the many different wave cases was combined with a study of the frequency-of-occurrence statistics for different harbor response events. This was done both for infrequent large tsunamis and for more frequent small amplitude tsunamis. Conservative probability methods were used for all results. On the basis of the response modeling and probability studies, the following conclusions were reached: (a) the harbor does not amplify incident long-period waves, especially those with a period of around 800 sec., (b) this amplification is, however, much

smaller than would be predicted by linear response models, such as that of Durham (1978), which neglects nonlinear effects, such as bottom friction, lateral mixing, and flooding, (c) the nature of the harbor response will depend on the character of the incident wave, and (d) the harbor location chosen is a good location for the mitigation of tsunami hazards. (Author).

With considerations such as complex-dimensional geometries and nonlinearity, the computational solution of partial differential systems has become so involved that it is important to automate decisions that have been normally left to the individual. This book covers such decisions: 1) mesh generation with links to the software generating the domain geometry, 2) solution accuracy and reliability with mesh selection linked to solution generation. This book is suited for mathematicians, computer scientists and engineers and is intended to encourage interdisciplinary interaction between the diverse groups.

Official Gazette of the United States Patent and Trademark Office

Electronic Properties of Polymers

Applied Mechanics Reviews

Research Methods in Education

Polarized Light and Optical Systems

Caribbean Basins

Ultrasonics International 87 contains the Proceedings of the Ultrasonics International Conference and Exhibition held at London, United Kingdom on July 1987. The conference discussed and reviewed some of the developments in the field of ultrasonics. The compendium consists of over 150 contributed papers, four invited papers and three plenary papers. Topics discussed include generation of unipolar ultrasonic pulses by signal processing; scattering of longitudinal waves by partially closed slots; piezoelectric materials for ultrasonic transducers; and measuring turbulent flow characteristics using a multi-dimensional ultrasonic probe. Fiber optic sensors, medical imaging and inverse methods, and laser generation of ultrasound are covered as well. Physicians, technicians, researchers, and physical scientists will find the book insightful.

Microwave Materials Characterization is an edited book discussing recent researches on basic and innovative measurement techniques for the characterization of materials at microwave frequencies, in terms of quantitative determination of their electromagnetic parameters, namely the complex permittivity and permeability. It is divided into two parts: Part 1, including original contributions on advanced techniques for the characterization of dielectric materials, and Part 2, devoted to the microwave characterization of biological tissues.

The Game Plan is designed to be used by secondary instructional leaders who want to make a lasting impact on the culture of literacy and data in their school(s). The book focuses on implementing the Common Core Standards for Literacy in

History/Social Studies, Science, and Technical Subjects and other college and career readiness literacy standards. It provides a practical, semester-by-semester plan to enact literacy strategies, use data, and create change using PLC principles.

(Publisher-supplied data) The book aims to discuss different aspects of reflexivity by inviting well known practitioners to reflect on how reflexivity has impacted on their work. Each chapter will cover an aspect of personal construct theory which the author has found helpful in their work, its relation to reflexivity, how they have incorporated this in practice and how it has enhanced their understanding of their own self construing. Around 20 authors will be invited to contribute. Dr Richard Butler is a Consultant Clinical Psychologist with East Leeds Primary Care Trust in the UK. He is an Associate Fellow of the British Psychological Society and has published extensively in the areas of both sport psychology and clinical psychology.

Proceedings of the Fourth Copper Mountain Conference on Multigrid Methods

Finite Elements

Phased Array Antennas

Analysis of Finite-size Phased Arrays of Circular Waveguide Elements

Computational Grids

17th International Workshop, CASC 2015, Aachen, Germany, September 14-18, 2015, Proceedings

A user-friendly introduction to the powerful mental mapping tool of repertory grid technique. Repertory grid technique is a system for identifying, in detail, what you or anyone else really thinks about an issue. You can use it as a tool for personal discovery, as a device for team building activities, or as a problem-solving aid. Written as a DIY guide, with a friendly expert sitting beside you, this book will teach you the technique of repertory grids step by step. Here you'll find all the information you need, alongside lots of worked examples and helpful exercises that you can use to check your understanding. The answers are in the back! If you want additional practice and resources a website that supports this book can be found at www.wiley.co.uk/easyguide Professor Devi Jankowicz is one of the leading authorities on occupational applications of personal construct theory and repertory grid technique. He has written this guide for psychology students and researchers; education students; personnel practitioners; as well as managers in the workplace. "This book's title may seem a contradiction in terms to readers who have seen the repertory grid as dauntingly complex. However, the book lives up to its title in being a very user-friendly introduction to the technique, written in a chatty style, and including numerous practical exercises, mostly not requiring use of computer software." - David Winter University of Hertfordshire and Barnet, Enfield and Haringey Mental Health NHS Trust

This book series Macromolecules Containing Metal and Metal-like Elements brings new concepts and developments in the titled area of research. Volume 9 focuses attention on the area of supramolecular chemistry, supramolecular architecture and supramolecular self-assemblies that involve materials containing metals and metal-like elements and the potential applications of these interesting hybrid materials.

This volume contains the proceedings of the 13th AIAA Computational Fluid Dynamics Conference. It addresses numerical procedures for the solution of fluid dynamics and interdisciplinary problems. Technical sessions of the conference focus on

design optimization, solution adaptive techniques, convergence acceleration methods, high-resolution schemes, parallel computing as well as improved algorithms for the solution of viscous, inviscid, and multi-component flow applications. The programme also includes a panel discussion addressing the evolving roles of government, industry and academia in future CFD developments.

This fully updated sixth edition of the international bestseller *Research Methods in Education* covers the whole range of methods currently employed by educational research at all stages. It is divided into five main parts: the context of educational research; planning educational research; styles of educational research; strategies for data collection and researching; and data analysis. The book also contains references to a comprehensive dedicated website of accompanying materials. The sixth edition includes new material on: complexity theory, ethics, sampling and sensitive educational research experimental research, questionnaire design and administration with practical guidance qualitative and quantitative data analysis, with practical examples internet based research. *Research Methods in Education* is essential reading for the professional researcher and continues to be the standard text for students and lecturers in educational research. To access the dedicated website of accompanying materials, please visit: www.routledge.com/textbooks/9780415368780.

Supramolecular and Self-Assembled Metal-Containing Materials

Official Gazette of the United States Patent Office

Antenna Engineering Handbook

Chemical Abstracts

Structural Health Monitoring 2011

Second Computational Aeroacoustics (CAA) Workshop on Benchmark Problems

In this comprehensive volume a treatment of grid generation, adaptive refinement, and redistribution techniques is developed together with supporting mathematical, algorithmic, and software concepts. Efficient solution strategies that exploit grid hierarchies are also described and analyzed. Emphasis is on the fundamental ideas, but the presentation includes practical guidelines for designing and implementing grid strategies.

The “ bible of antenna engineering ” fully updated to provide state-of-the-art coverage in antenna design and applications Edited by John L. Volakis, one of the world's leading authorities in antenna engineering, this trusted resource covers all the classic antenna types plus many new types and designs used in communications systems, satellites, radars, and emerging applications from WLAN to automotive systems to biomedical to smart antennas. You will also find expert discussion of topics critical to successful antenna design and engineering, such as measurement techniques and computational methods, a materials guide, wave propagation basics, microwave circuits, and matching techniques, as well as diversity and MIMO propagation models, frequency selective surfaces, and metamaterials. Packed with 1,500 illustrations, the 4th Edition of *Antenna Engineering Handbook* presents: Step-by-

step guidance on most antennas (modern and classic) 59 chapters with 21 new chapters and 38 fully updated chapters from the previous edition Contributions from over 80 well-known antenna experts Full-color insert illustrating many commercial and military antennas Get Quick Access to All of Today's Cutting-Edge Antennas • Printed and Conformal Antennas • Wideband Patch Antennas • Wideband Arrays • Leaky-Wave Antennas • EBG Antennas • UWB Antennas and Arrays • Portable TV Antennas • Reconfigurable Antennas • Active Antennas • Millimeter Wave and TeraHertz Antennas • Fractal Antennas • Handset and Terminal Antennas • Biomedical Antennas • ECM and ESM antennas • Dielectric Resonator Antennas • Lens Antennas • Radiometer Antennas • Satellite Antennas • Reflector and Earth Station Antennas • and Dozens More!

This 21-chapter volume provides a regionally-comprehensive collection of original studies of Caribbean basins conducted by academic and petroleum geologists and geophysicists in the early and mid-1990s. The common tectonic events discussed in the volume including the rifting and passive margin history of North and South America that led to the formation of the Caribbean region; the entry of an exotic, Pacific-derived Great Arc of the Caribbean at the leading edge of the Caribbean oceanic plateau; the terminal collision of the arc and plateau with the passive margins fringing North and South America; and subsequent strike-slip and accretionary tectonics that affected the arc-continent collision zone. Two introductory chapters (Part A) utilize recent advances in quantitative plate tectonic modeling and satellite-based gravity measurements to place the main phases of Caribbean basin formation into a global plate tectonic framework. Nineteen subsequent chapters are organized geographically and focus on individual or groups of genetically-linked basins. Part B consists of five chapters which mainly focus on basins overlying the North America plate in the Gulf of Mexico, Cuba and the Bahamas that record its rifting from South America in late Jurassic to Cretaceous time. Part C has six chapters that focus on smaller, usually heavily faulted and onshore Cenozoic basins of the northern Caribbean that formed in response to arc collisional and strike-slip activity along the evolving North America-Caribbean plate boundary. The two chapters in Part D focus on Cenozoic basins related to the Lesser Antilles arc system of the eastern Caribbean. Part E is comprised of three chapters on the Jurassic-Recent sedimentary basins of the eastern Venezuela and Trinidad area of the southeastern Caribbean. These basins reflect both the Jurassic-Cretaceous rifting and passive margin history of separation between the North and South America plates as well as a much younger phase of Oligocene to recent transpression between the eastward migrating Lesser Antilles arc and accretionary wedge and the South America continent. The three chapters of Part F contain deep penetration seismic reflection and other geophysical data on the largely submarine Cretaceous Caribbean oceanic plateau that forms the nucleus of the present-day Caribbean plate.

This volume covers the proceedings of the ICASE/LaRC workshop on "Finite Element Theory and Application" held during July 28-30, 1986. The purpose of this workshop was to provide an update on the status of finite element theory, to assess the impact of this theory on practice, and to suggest directions for future research. There were thirteen participants in the workshop. Some of them were leading mathematicians working on the finite element theory, and the rest expert practitioners in the areas of fluid dynamics and structural analysis. The first six articles in this volume provide a brief review of the theoretical and computational aspects of finite element methods (FEM). The remaining seven articles deal with a variety of applications highlighting the type of results that are possible, and indicating areas which deserve future research. The first article is by Temam. It provides an introduction and overview of the general finite element methods for the nonspecialist. It also illustrates the power of finite element methods with two specific applications—the free surface flow-structure interaction problem and the compressible Euler solution to the flow past a finite aspect ratio flat plate at incidence. The second article by Brezzi is again an introduction and overview of mixed finite element methods. It includes a brief discussion of special techniques for solving the discrete problem, as well as some applications to certain basic problems in elasticity and hydrodynamics.

Smart Systems for Safety, Sustainability, and Comfort

Macromolecules Containing Metal and Metal-Like Elements, Volume 9

The Easy Guide to Repertory Grids

Proceedings of the 16th International Meshing Roundtable

The Game Plan

Toolkit for Mentor Practice

All the processes, strategies, and tools a mentor needs to support and retain new teachers! Field-tested and evidence-based, this resource is a complete kit with everything mentors need to support novice teachers on their journey to becoming confident, effective professionals. Guiding mentors and their protégés through three transformational learning stages, the toolkit features: A mentoring process that uses data collection and collaborative conversations to improve classroom practices Data-gathering tools that reveal how new teachers interact with students, plan for instruction, design lessons, analyze student work, and differentiate instruction Implementation guidelines and examples that illustrate how to use each tool

This IMA Volume in Mathematics and its Applications GRID GENERATION AND ADAPTIVE ALGORITHMS is based on the proceedings of a workshop with the same title. The workshop was an integral part of the 1996-97 IMA program on "MATHEMATICS IN HIGH-PERFORMANCE COMPUTING." I would like to thank

Marshall Bern (Xerox, Palo Alto Research Center), Joseph E. Flaherty (Department of Computer Science, Rensselaer Polytechnic Institute), and Mitchell Luskin (School of Mathematics, University of Minnesota), for their excellent work as organizers of the meeting and for editing the proceedings. I also take this opportunity to thank the National Science Foundation (NSF), Department of Energy (DOE), and the Army Research Office (ARO), whose financial support made the workshop possible. Willard Miller, Jr., Professor and Director v PREFACE Scientific and engineering computation has become so complex that traditional numerical computation on uniform meshes is generally not possible or too expensive. Mesh generation must reflect both the domain geometry and the expected solution characteristics. Meshes should, furthermore, be related to the solution through computable estimates of discretization errors. This, suggests an automatic and adaptive process where an initial mesh is enriched with the goal of computing a solution with prescribed accuracy specifications in an optimal manner. While automatic mesh generation procedures and adaptive strategies are becoming available, major computational challenges remain. Three-dimensional mesh generation is still far from automatic.

The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and technologies This new edition of the “ bible of antenna engineering ” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this acclaimed resource is edited by one of the world’s leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld devices, making it an indispensable companion for today’s antenna practitioners and developers. Coverage includes:

- Antenna basics and classic antennas
- Design approaches for antennas and arrays
- Wideband and multiband antennas
- Antennas for mobile devices and PDAs, automotive applications, and aircraft
- Base station and smart antennas
- Beamforming and 5G antennas
- Millimeter-wave and terahertz antennas
- Flexible, wearable, thin film, origami, dielectric, and on-

chip antennas • MIMO antennas and phased arrays • Direction-finding and GPS antennas • Active antennas • Low-profile wideband antennas • Nanoantennas • Reflectors and other satellite and radio-telescope antennas • Low-frequency, HF, VHF, UHF, ECM, and ESM antennas • Impedance-matching techniques and material characteristics • Metastructured and frequency selective surfaces • Propagation and guided structures • Computational techniques and toolsets • Indoor and outdoor measurements

The International Winter School on Electronic Properties of Polymers Orientation and Dimensionality of Conjugated Systems, held March 9-16, 1991, in Kirchberg, (TYrol) Austria, was a sequel to three meetings on similar subjects held there. The 1991 winter school was again organized in cooperation with the "Bundesministerium fUr Wissenschaft und Forschung" in Austria, and with the "Bundesministerium fUr Forschung und Technologie" in the Federal Republic of Germany. The basic idea of the meeting was to provide an opportunity for experienced scientists from universities and industry to discuss their most recent results and for students and young scientists to become familiar with the present status of research and applications in the field. Like the previous winter schools on polymers, this one concentrated on the electronic structure and potential~ for application of polymers with conjugated double bonds. This time, however, special attention was paid to the effects of orientation and dimensionality. Anisotropy of the electric conductivity in stretch-oriented samples and whether the transport mechanisms are one-, two-, or three-dimensional or might even have a "fractal dimensionality" were therefore central topics. The problem of orientation was extended to systems such as Langmuir-Blodgett films and other layered structures. Accordingly, thin films were the focus of most of the application oriented contributions. Whereas in the previous winter schools discussions on applications dealt with "large volume applications" such as electromagnetic shielding and energy storage, this time "molecular materials for electronics" and prospects of "molecular electronics" were at the center of interest.

Condition Based Maintenance and Intelligent Structures : Proceedings of the 8th International Workshop on Structural Health Monitoring, Stanford University, Stanford, CA, September 13-15, 2011

Multiscale, Nonlinear and Adaptive Approximation

Proceedings of the 10th International Conference, August 27 – September 1, 1995, Budapest, Hungary

Proceedings of a Conference Held in Liège, Belgium, 3-6 October 1994

Antenna Engineering Handbook, Fourth Edition

Tsunami Response of Barbers Point Harbor, Hawaii

Access Free A 16 Element Reflection Grid Amplifier With Improved Heat

This is the first comprehensive monograph that features state-of-the-art multigrid methods for enhancing the modeling versatility, numerical robustness, and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods: the method of finite elements. The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems (BVPs) discretized by means of finite methods. Specifically, the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of electromagnetic BVPs using finite methods. Following the authors' careful explanations and step-by-step instruction, readers can duplicate the authors' results and take advantage of today's state-of-the-art multigrid/multilevel preconditioners for finite element-based iterative electromagnetic field solvers. Among the highlights of coverage are: *

- * Application of multigrid, multilevel, and hybrid multigrid/multilevel preconditioners to electromagnetic scattering and radiation problems
- * Broadband, robust numerical modeling of passive microwave components and circuits
- * Robust, finite element-based modal analysis of electromagnetic waveguides and cavities
- * Application of Krylov subspace-based methodologies for reduced-order macromodeling of electromagnetic devices and systems
- * Finite element modeling of electromagnetic waves in periodic structures

The authors provide more than thirty detailed algorithms alongside pseudo-codes to assist readers with practical computer implementation. In addition, each chapter includes an applications section with helpful numerical examples that validate the authors' methodologies and demonstrate their computational efficiency and robustness. This groundbreaking book, with its coverage of an exciting new enabling computer-aided design technology, is an essential reference for computer programmers, designers, and engineers, as well as graduate students in engineering and applied physics.

In the tradition of the previous three conferences, the proceedings of the 4th Ultra-Wideband Short-Pulse Electromagnetics Conference explores topics including pulse generation and detection; broadband electronic systems; antennas - theory, design, experiments and systems; pulse propagation; scattering theory; signal processing; and

buried targets - detection and identification.

This volume contains the articles presented at the 16th International Meshing Roundtable (IMR) organized, in part, by Sandia National Laboratories and held in Seattle, Washington, U.S.A. in October, 2007. The volume presents recent results of mesh generation and adaptation which has applications to finite element simulation. It introduces theoretical and novel ideas with practical potential.

Polarized Light and Optical Systems presents polarization optics for undergraduate and graduate students in a way which makes classroom teaching relevant to current issues in optical engineering. This curriculum has been developed and refined for a decade and a half at the University of Arizona's College of Optical Sciences. Polarized Light and Optical Systems provides a reference for the optical engineer and optical designer in issues related to building polarimeters, designing displays, and polarization critical optical systems. The central theme of Polarized Light and Optical Systems is a unifying treatment of polarization elements as optical elements and optical elements as polarization elements.

Third International Conference on Mathematical and Numerical Aspects of Wave Propagation
Patents

Modeling, Mesh Generation, and Adaptive Numerical Methods for Partial Differential
Equations

Advanced Microsystems for Automotive Applications 2009

Multigrid Finite Element Methods for Electromagnetic Field Modeling

Orientation and Dimensionality of Conjugated Systems Proceedings of the International
Winter School, Kirchberg, (Tyrol) Austria, March 9-16, 1991

In May 1995 a meeting took place at the Manchester Metropolitan University, UK, with the title International Workshop on Numerical Methods for Wave Propagation Phenomena. The Workshop, which was attended by 60 scientists from 13 countries, was preceded by a short course entitled High-Resolution Numerical Methods for Wave Propagation Phenomena. The course participants could then join the Workshop and listen to discussions of the latest work in the field led by experts responsible for such developments. The present volume

contains written versions of their contributions from the majority of the speakers at the Workshop. Professor Amiram Harten, but for his untimely death at the age of 50 years, would have been one of the speakers at the Workshop. His remarkable contributions to Numerical Analysis of Conservation Laws are commemorated in this volume, which includes the text of the First Harten Memorial Lecture, delivered by Professor P. L. Roe from the University of Michigan in Ann Arbor, USA.

The book of invited articles offers a collection of high-quality papers in selected and highly topical areas of Applied and Numerical Mathematics and Approximation Theory which have some connection to Wolfgang Dahmen's scientific work. On the occasion of his 60th birthday, leading experts have contributed survey and research papers in the areas of Nonlinear Approximation Theory, Numerical Analysis of Partial Differential and Integral Equations, Computer-Aided Geometric Design, and Learning Theory. The main focus and common theme of all the articles in this volume is the mathematics building the foundation for most efficient numerical algorithms for simulating complex phenomena. This 2-volume set of books, comprising over 2,700 total pages, presents 325 fully original presentations on recent advances in structural health monitoring, as applied to commercial and military aircraft (manned and unmanned), high-rise buildings, wind turbines, civil infrastructure, power plants and ships. One general theme of the books is how SHM can be used for condition-based maintenance, with the goal of developing prediction-based systems, designed to save money over the life of vehicles and structures. A second theme centers on technologies for developing systems comprising sensors, diagnostic data and decision-making, with a focus on intelligent materials able to respond to damage and in some cases repair it. Finally the books discuss the relation among data, data interpretation and decision-making in managing a wide variety of complex structures and vehicles. More recent technologies discussed in the books include SHM and environmental effects, energy harvesting, non-contact sensing, and intelligent networks. Material in these books was first presented in September, 2011 at a conference held at Stanford University and sponsored by the Air Force Office of Scientific Research, the Army Research Office, the Office of Naval Research and the National Science

Foundation. Some of the highlights of the books include: SHM technologies for condition-based maintenance (CBM) and predictive maintenance Verification, validation, qualification, data mining, prognostics systems for decision-making Structural health, sensing and materials in closed-loop intelligent networks Military and aerospace, bioinspired sensors, wind turbines, monitoring with MEMS, damage sensing, hot spot monitoring, SHM and ships, high-rise structures Includes a fully-searchable CD-ROM displaying many figures and charts in full color

A derivation is presented for the calculation of the interelement mutual coupling in a finite-size planar array of waveguide-fed apertures covered by a multilayered dielectric and/or plasma. The general mutual admittance expression is evaluated for circular apertures and the mutual coupling calculations are verified experimentally for two transverse electric (TE₁₁) circular waveguide mode excited apertures. A parametric study of higher order mode aperture fields indicates that the only significant change in the circular aperture mutual coupling is due to the transverse magnetic (TM₁₁) mode, which introduces an additional phase shift. Qualitative agreement between calculations for a 183-element array of circular apertures and an infinite array establishes the validity of the finite-array theoretical model.

Progress in Fourier Transform Spectroscopy

Ultra-Wideband Short-Pulse Electromagnetics 4

13th AIAA Computational Fluid Dynamics Conference ; Snowmass Village, CO, June 29-July 2, 1997

Microwave Materials Characterization

Conference Proceedings

Generations, Adaptation & Solution Strategies

The role of energy in the modern world goes beyond mere technology and economics to influence welfare, the environment, the quality of life and, in broad terms, civilization itself. Since the Industrial Revolution, energy conservation technology has been at the forefront of the innovation required to satisfy the needs of mankind and, more than any other, this technology has always depended on the performance of the materials used. This book constitutes the proceedings of the 17th International Workshop on Computer Algebra in Scientific

Computing, CASC 2015, held in Aachen, Germany, in September 2015. The 35 full papers presented in this volume were carefully reviewed and selected from 42 submissions. They deal with the ongoing progress both in theoretical computer algebra and its expanding applications. New and closer interactions are fostered by combining the area of computer algebra methods and systems and the application of the tools of computer algebra for the solution of problems in scientific computing.

19 plenary lectures and 203 poster papers presented at the 10th International Conference of Fourier Transform Spectroscopy in Budapest 1995 give an overview on the state-of-the art of this technology and its wide range of applications. The reader will get information on any aspects of FTS including the latest instrumental developments, e.g. in diode array detection, time resolution FTS, microscopy and spectral mapping, double modulation and two-dimensional FTS.

Theory and Application Proceedings of the ICASE Finite Element Theory and Application Workshop Held July 28–30, 1986, in Hampton, Virginia

Ultrasonics International 87

Grid Generation and Adaptive Algorithms

Numerical Methods for Wave Propagation

Soviet Journal of Optical Technology

A Collection of Technical Papers