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A Selected Listing of NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration. Scientific and Technical Information Division 1970

Parallel Processing and Applied Mathematics, Part II Roman Wyrzykowski 2010-07-12 The LNCS series reports State-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. More recently, several color-cover sublines have been added featuring, beyond a collection of papers, various added-value components In parallel to the printed book, each new volume is published electronically in LNCS Online

SIAM Journal on Applied Mathematics Society for Industrial and Applied Mathematics 1966

Arithmetic Theory of Elliptic Curves J. Coates 2006-11-14 This volume contains the expanded versions of the lectures given by the authors at the C.I.M.E. instructional conference held in Cetraro, Italy, from July 12 to 19, 1997. The papers collected here are broad surveys of the current research in the arithmetic of elliptic curves, and also contain several new results which cannot be found elsewhere in the literature. Owing to clarity and elegance of exposition, and to the background material explicitly included in the text or quoted in the references, the volume is well suited to research students as well as to senior mathematicians.

AIAA Student Journal American Institute of Aeronautics and Astronautics 1997

NASA Scientific and Technical Reports and Publications for 1969 United States. National Aeronautics and Space Administration. Scientific and Technical Information Division 1970

Mathematics Inspired by Biology O. Diekmann 2006-11-15 The summer school on Mathematics inspired by Biology was held at Martina Franca, Apulia, Italy in 1997. This volume presents five series of six lectures each. The common theme is the role of structure in shaping transient and ultimate dynamics. But the type of structure ranges from spatial (hadeler and maini in the deterministic setting, Durrett in the stochastic setting) to physiological (Diekmann) and order (Smith). Each contribution sketches the present state of affairs while, by including some wishful thinking, pointing at open problems that deserve attention.

Hermann Schlichting – 100 Years Rolf Radespiel 2009-03-06 Hermann Schlichting is one of the internationally leading scientists in the field of th fluid mechanics during the 20 century. He contributed largely to modern theories of viscous flows and aircraft aerodynamics. His famous monographies Boundary Layer Theory and Aerodynamics of Aircraft are known worldwide and they appeared in six languages. He held Chairs of Aerodynamics and Fluid Mechanics at Technische U- versit☐ t Braunschweig during 37 years and directed the Institute of Aerodynamics of the Deutsche Forschungsanstalt f☐ r Luftfahrt in Braunschweig. He also directed the Aerodynamische Versuchsanstalt G☐ ttingen and served in the Executive Board of the German Aerospace Center (DFVLR). Hermann Schlichting played a leading role in the rebuilding of aerospace research in Germany after the Second World War. th The occasion of his 100 birthday in the year 2007 was an excellent opportunity to acknowledge important ideas and accomplishments that Hermann Schlichting c- tributed to science. The editors of this volume are the present successors of Hermann Schlichting in his role as director of the two research institutes in Braunschweig. We were glad to host a scientific colloquium in his honor on 28 September 2007. Invited former scholars of Hermann Schlichting reviewed his work in boundary layer theory and in aircraft aerodynamics followed by presentations of important research results of his institutes today.

Calculus of Variations and Geometric Evolution Problems F. Bethuel 2006-11-14 The international summer school on Calculus of Variations and Geometric Evolution Problems was held at Cetraro, Italy, 1996. The contributions to this volume reflect quite closely the lectures given at Cetraro which have provided an image of a fairly broad field in analysis where in recent years we have seen many important contributions. Among the topics treated in the courses were variational methods for Ginzburg-Landau equations, variational models for microstructure and phase transitions, a variational treatment of the Plateau problem for surfaces of prescribed mean curvature in Riemannian manifolds - both from the classical point of view and in the setting of geometric measure theory.

Key-words-in-context Title Index 1963

Numerical Mathematics and Applications J. Vignes 2014-06-28 Numerical Mathematics and Applications

Aeronautical Engineering 1971 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA)

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications Kats, Yefim 2010-05-31 "This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspect of educational process, and, the best practices and methodologies for LMS-supported course delivery"--Provided by publisher.

ICASISET 2020 Mahalingam Sundhararajan 2021-01-27 We are delighted to introduce the proceedings of the first edition of the 2020 European Alliance for Innovation (EAI) International Conference on Advanced Scientific Innovation in Science, Engineering and Technology. This conference has brought innovative academics, industrial experts researchers, developers and practitioners around the world in the field of Science, Engineering and Technology to a common forum. The technical program of ICASISET 2020 consisted of 97 full papers, including 6 invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Innovative Computing, Advanced innovation technology in Communication, Industry automation, hydrogen hybrid machine, computing in medical applications, Image processing and Internet of Things (IoT) and application. Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches, one invited talk and two technical workshops. The two keynote speeches were Dr. Hoshang Kolivand, Senior Lecturer, Liverpool John moores University, United Kingdom and Dr. Sheldon Williamson from Canada Research Chair in Electric Energy Storage Systems for Transportation Electrification and Professor in the Department of Electrical, Computer and Software Engineering, Ontario Tech University. The two workshops organized were in the topics of Machine learning and Industrial applications. The workshop aimed to gain insights into key challenges, understanding and design criteria of employing recent technologies to develop and implement computational techniques and applications.

The Aerospace Year Book 1968

Advances in Multi-Grid Methods Dietrich Braess 2013-09-03

Unsteady Computational Fluid Dynamics in Aeronautics P.G. Tucker 2013-08-30 The field of Large Eddy Simulation (LES) and hybrids is a vibrant research area. This book runs through all the potential unsteady modelling fidelity ranges, from low-order to LES. The latter is probably the highest fidelity for practical aerospace systems modelling. Cutting edge new frontiers are defined. One example of a pressing environmental concern is noise. For the accurate prediction of this, unsteady modelling is needed. Hence computational aeroacoustics is explored. It is also emerging that there is a critical need for coupled simulations. Hence, this area is also considered and the tensions of utilizing such simulations with the already expensive LES. This work has relevance to the general field of CFD and LES and to a wide variety of non-aerospace aerodynamic systems (e.g. cars, submarines, ships, electronics, buildings). Topics treated include unsteady flow techniques; LES and hybrids; general numerical methods; computational aeroacoustics; computational aeroelasticity; coupled simulations and turbulence and its modelling (LES, RANS, transition, VLES, URANS). The volume concludes by pointing forward to future horizons and in particular the industrial use of LES. The writing style is accessible and useful to both academics and industrial practitioners. From the reviews: "Tucker's volume provides a very welcome, concise discussion of current capabilities for simulating and modellng unsteady aerodynamic flows. It covers the various pos sible numerical techniques in good, clear detail and presents a very wide range of practical applications; beautifully illustrated in many cases. This book thus provides a valuable text for practicing engineers, a rich source of background information for students and those new to this area of Research & Development, and an excellent state-of-the-art review for others. A great achievement." Mark Savill FHEA, FRAeS, C.Eng, Professor of Computational Aerodynamics Design & Head of Power & Propulsion Sciences, Department of Power & Propulsion, School of Engineering, Cranfield University, Bedfordshire, U.K. "This is a very useful book with a wide coverage of many aspects in unsteady aerodynamics method development and applications for internal and external flows." L. He, Rolls-Royce/RAEng Chair of Computational Aerothermal Engineering, Oxford University, U.K. "This comprehensive book ranges from classical concepts in both numerical methods and turbulence modelling approaches for the beginner to latest state-of-the-art for the advanced practitioner and constitutes an extremely valuable contribution to the specific Computational Fluid Dynamics literature in Aeronautics. Student and expert alike will benefit greatly by reading it from cover to cover." S☐ bastien Deck, Onera, Meudon, France

Approximation, Optimization and Mathematical Economics Marc Lassonde 2012-12-06 The articles in this proceedings volume reflect the current trends in the theory of approximation, optimization and mathematical economics, and include numerous applications. The book will be of interest to researchers and graduate students involved in functional analysis, approximation theory, mathematical programming and optimization, game theory, mathematical finance and economics.

Microcomputers in Secondary Education Shigeichi Moriguchi 1987 Hardbound. As microcomputers become increasingly more powerful, and relatively less expensive, their effect on secondary education continues to grow rapidly. With this in mind, this book focusses on current trends in Asia and the Pacific region. Contributors present their own extensive classroom practice and experience, and provide the basis for the future planning necessary to promote the use of microcomputers in secondary education.

NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration Scientific and Technical Information Division 1970

Computation and Applied Mathematics 1993

Computation and Applied Mathematics 1997

U.S. Government Research Reports 1962

Frontiers of Computational Fluid Dynamics 2002 David A. Caughey 2002 This series of volumes on the ?Frontiers of Computational Fluid Dynamics? was introduced to honor contributors who have made a major impact on the field. The first volume was published in 1994 and was dedicated to Prof Antony Jameson; the second was published in 1998 and was dedicated to Prof Earl Murman. The volume is dedicated to Prof Robert MacCormack.The twenty-six chapters in the current volume have been written by leading researchers from academia, government laboratories, and industry. They present up-to-date descriptions of recent developments in techniques for numerical analysis of fluid flow problems, and applications of these techniques to important problems in industry, as well as the classic paper that introduced the ?MacCormack scheme? to the world.

Resources in Education 1978

Handbook of Research on International Approaches and Practices for Gamifying Mathematics Huertas-Abril, Cristina A. 2022-05-13 Game-based resources provide opportunities to consolidate and develop a greater knowledge and understanding of both mathematical concepts and numeracy skills, which present opportunities and challenges for both teachers and learners when engaging with subject content. For learners for whom the language of instruction is not their first or main language, this can present challenges and barriers to their progress. This requires teachers to reconsider and adapt their teaching strategies to ensure the needs of these learners are fully addressed, thereby promoting inclusion and inclusive practices. The Handbook of Research on International Approaches and Practices for Gamifying Mathematics provides relevant theoretical frameworks and the latest empirical research findings in teaching and learning mathematics in bilingual/plurilingual education by using active methodologies, specifically gamification and game-based learning and teaching. Covering a wide range of topics such as e-safety, bilingual education, and multimodal mathematics, this major reference work is ideal for policymakers, researchers, academicians, practitioners, scholars, instructors, and students.

International Handbook of Accounting Education and Certification Kwabena Anyane-Ntow 2014-06-28 This is the first work of its kind. Original contributions from leading academicians, practitioners and accounting associations from around the world make this handbook a unique source of information on international accounting education and certification processes. A uniform format in most of the chapters allows for easy comparison between countries. This volume documents the development of accounting education and practice at country and global levels; studies the sensitivity of accounting education and practices to the unique socio-economic needs of its environment; and allows comparative studies at a time when attempts have begun to harmonize accounting education internationally. Most importantly, it shows how educational programmes around the world are preparing future accounting professionals to deal with the rapid technological and environmental changes of the 21st century.

eScience on Distributed Computing Infrastructure Marian Bubak 2014-08-25 To help researchers from different areas of science understand and unlock the potential of the Polish Grid Infrastructure and to define their requirements and expectations, the following 13 pilot communities have been organized and involved in the PLGrid Plus project: Acoustics, AstroGrid-PL, Bioinformatics, Ecology, Energy Sector, Health Sciences, HEPGrid, Life Science, Materials, Metallurgy, Nanotechnologies, Quantum Chemistry and Molecular Physics, and SynchroGrid. The book describes the experience and scientific results achieved by the project partners. Chapters 1 to 8 provide a general overview of research and development activities in the framework of the project with emphasis on services for different scientific areas and an update on the status of the PL-Grid infrastructure, describing new developments in security and middleware. Chapters 9 to 13 discuss new environments and services which may be applied by all scientific communities. Chapters 14 to 36 present how the PLGrid Plus environments, tools and services are used in advanced domain specific computer simulations; these chapters present computational models, new algorithms, and ways in which they are implemented. The book also provides a glossary of terms and concepts. This book may serve as a resource for researchers, developers and system administrators working on efficient exploitation of available e-infrastructures, promoting collaboration and exchange of ideas in the process of constructing a common European e-infrastructure.

Engineering Mathematics in Ship Design Cristiano Fragassa 2020-01-03 Engineering mathematics is a branch of applied mathematics where mathematical methods and techniques are implemented for solving problems related to the engineering and industry. It also represents a multidisciplinary approach where theoretical and practical aspects are deeply merged with the aim at obtaining optimized solutions. In line with that, the present Special Issue, 'Engineering Mathematics in Ship Design', is focused, in particular, with the use of this sort of engineering science in the design of ships and vessels. Articles are welcome when applied science or computation science in ship design represent the core of the discussion.

High Angle of Attack Aerodynamics Josef Rom 2012-12-06 The aerodynamics of aircraft at high angles of attack is a subject which is being pursued diligently, because the modern agile fighter aircraft and many of the current generation of missiles must perform well at very high incidence, near and beyond stall. However, a comprehensive presentation of the methods and results applicable to the studies of the complex aerodynamics at high angle of attack hás not been covered in monographs or textbooks. This book is not the usual textbook in that it goes beyond just presenting the basic theoretical and experimental know-how, since it contains reference material to practical calculation methods and technical and experimental results which can be useful to the practicing aerospace engineers and scientists. It can certainly be used as a text and reference book for graduate courses on subjects related to high angles of attack aerodynamics and for topics related to three-dimensional separation in viscous flow courses. In addition, the book is addressed to the aerodynamicist interested in a comprehensive reference to methods of analysis and computations of high angle of attack flow phenomena and is written for the aerospace scientist and engineer who is familiar with the basic concepts of viscous and inviscid flows and with computational methods used in fluid dynamics.

The Early Mathematics of Leonhard Euler C. Edward Sandifer 2020-07-14 The Early Mathematics of Leonhard Euler gives an article-by-article description of Leonhard Euler's early mathematical works; the 50 or so mathematical articles he wrote before he left St. Petersburg in 1741 to join the Academy of Frederick the Great in Berlin. These early pieces contain some of Euler's greatest work, the Konigsberg bridge problem, his solution to the Basel problem, and his first proof of the Euler-Fermat theorem. It also presents important results that we seldom realize are due to Euler; that mixed partial derivatives are (usually) equal, our f(x) f(x) notation, and the integrating factor in differential equations. The books shows how contributions in diverse fields are related, how number theory relates to series, which, in turn, relate to elliptic integrals and then to differential equations. There are dozens of such strands in this beautiful web of mathematics. At the same time, we see Euler grow in power and sophistication, from a young student when at 18 he published his first work on differential equations (a paper with a serious flaw) to the most celebrated mathematician and scientist of his time. It is a portrait of the world's most exciting mathematics between 1725 and 1741, rich in technical detail, woven with connections within Euler's work and with the work of other mathematicians in other times and places, laced with historical context.

Progress in Industrial Mathematics at ECMI 94 Helmut Neunzert 2013-03-09 Aerospace Industry.- Some Applications of Mathematics in Aeronautics and Perspectives (invited paper).- Small Satellites for Deep Space Operation - a Challenge to Optimal Control.- Numerical Computation of Optimal Ascent Trajectories with a Dynamic Pressure Limit.- Real-Time Optimisation for the Guidance of Dynamic Systems.- Time Discrete Event Systems and Time Tables.- Parallel Computation in Air Traffic Guidance.- The Numerical Investigation of the Two-dimensional Shock Wave Reflection.- Automotive Industry.- The Direct Modification of Surface Curvatures in Car Body Design (invited paper).-

Stochastic PDE's and Kolmogorov Equations in Infinite Dimensions N.V. Krylov 2006-11-15 Kolmogorov equations are second order parabolic equations with a finite or an infinite number of variables. They are deeply connected with stochastic differential equations in finite or infinite dimensional spaces. They arise in many fields as Mathematical Physics, Chemistry and Mathematical Finance. These equations can be studied both by probabilistic and by analytic methods, using such tools as Gaussian measures, Dirichlet Forms, and stochastic calculus. The following courses have been delivered: N.V. Krylov presented Kolmogorov equations coming from finite-dimensional equations, giving existence, uniqueness and regularity results. M. R☐ ckner has presented an approach to Kolmogorov equations in infinite dimensions, based on an LP-analysis of the corresponding diffusion operator with respect to suitably chosen measures. J. Zabczyk started from classical results of L. Gross, on the heat equation in infinite dimension, and discussed some recent results.

Fluid Dynamics for the Study of Transonic Flow Heinrich J. Ramm 1990-02-01 This new book leads readers step-by-step through the complexities encountered as moving objects approach and cross the sound barrier. The problems of transonic flight were apparent with the very first experimental flights of scale-model rockets when the disastrous impact of shock waves and flow separations caused the aircraft to spin wildly out of control. Today many of these problems have been overcome, and this book offers an introduction to the transonic theory that has made possible many of these advances. The emphasis is on the most important basic approaches to the solution of transonic problems. The book also includes explanations of common pitfalls that must be avoided. An effort has been made to derive the most important equations of inviscid and viscous transonic flow in sufficient detail so that even novices may feel confident in their problem-solving ability. The use of computer approaches is reviewed, with

references to the extensive literature in this area, while the critical shortcomings of an exclusive reliance on computational methods are also described. The book will be valuable to anyone who needs to acquire an understanding of transonic flow, including practicing engineers as well as students of fluid mechanics.

The Aeronautical Journal 2006

The African Book Publishing Record 1985

Aerospace Year Book 1968

Aerospace 1993

California Diploma Project Technical Report I: Crosswalk Study Charis McGaughy 2012 The Educational Policy Improvement Center (EPIC) conducted an investigation of the Intersegmental Committee for the Academic Senates (ICAS) Statements of Competencies for Mathematics and Academic Literacy. The purpose of this work is to understand how the ICAS competencies relate to college and career readiness, as represented by the augmented Common Core State Standards (CCSS) adopted by the California State Board of Education (SBE) on August 2, 2010. This study investigated a crosswalk analysis between (a) the Academic Literacy (ELA) ICAS competencies and the CCSS ELA Anchor Standards and (b) the mathematics ICAS competencies and the CCSS Standards for Mathematical Practice and the High School Mathematics Standards at the cluster level. Overall, the study finds that the ICAS competencies do relate to the augmented Common Core State Standards. This study also reveals the absence of certain "habits of mind" and English as a Second Language (ESL) standards in the CCSS ELA standards, and the absence of discrete mathematics and calculus in the augmented CCSS mathematics standards. The ICAS framework is broader than the CCSS ELA standards in addressing additional components related to supporting ESL students and includes key cognitive strategies all students need to be successful in postsecondary settings. The results of this study also raise the issue of the level of desired preparation in mathematics for high school graduates in California. The CCSS mathematics standards strongly relate to the ICAS competencies identified as "essential" for all students, but have gaps with the ICAS competencies deemed "desirable" for all students. Appended are: (1) Standards and Competencies; and (2) Competencies and Frequencies of Ratings. (Contains 5 figures, 17 tables, and 5 footnotes.) [This paper was prepared for Policy Analysis for California Education (PACE).].

Computation and Applied Mathematics 1993