Icas Past Papers C

By presenting state-of-the-art results in logical reasoning and formal methods in the context of artificial intelligence and AI applications, this book commemorates the 60th birthday of Jörg H. Siekmann. The 30 revised reviewed papers are written by former and current students and colleagues of Jörg Siekmann; also included is an appraisal of the scientific career of Jörg Siekmann entitled "A Portrait of a Scientist: Logics, AI, and Politics." The papers are organized in four parts on logic and deduction, applications of logic, formal methods and security, and agents and planning.

This volume contains the papers of a German symposium dealing with research and project work in numerical and experimental aerodynamics and fluidmechanics for aerospace and other applications. It gives a broad overview over the ongoing work in this field in Germany.

"Fascinating.... Lays a foundation for understanding human history."—Bill Gates In this "artful, informative, and delightful" (William H. McNeill, New York Review of Books) book, Jared Diamond convincingly argues that geographical and environmental factors shaped the modern world. Societies that had had a head start in food production advanced beyond the hunter-gatherer stage, and then developed religion --as well as nasty germs and potent weapons of war --and adventured on sea and land to conquer and decimate preliterate cultures. A major advance in our understanding of human societies, Guns, Germs, and Steel chronicles the way that the modern world came to be and stunningly dismantles racially based theories of human history. Winner of the Pulitzer Prize, the Phi Beta Kappa Award in Science, the Rhone-Poulenc Prize, and the Commonwealth club of California's Gold Medal.

A classic examination of superb design through the centuries. Widely regarded as a classic in the field, Experiencing Architecture explores the history and promise of good design. Generously illustrated with historical examples of designing excellence—ranging from teacups, riding boots, and golf balls to the villas of Palladio and the fish-feeding pavilion of Beijing's Winter Palace—Rasmussen's accessible guide invites us to appreciate architecture not only as a profession, but as an art that shapes everyday experience. In the past, Rasmussen argues, architecture was not just an individual pursuit, but a community undertaking. Dwellings were built with a natural feeling for place, materials and use, resulting in “a remarkably suitable comeliness.” While we cannot return to a former age, Rasmussen notes, we can still design spaces that are beautiful and useful by seeking to understand architecture as an art form that must be experienced. An understanding of good design comes not only from one's professional experience of architecture as an abstract, individual pursuit, but also from one's shared, everyday experience of architecture in real time—its particular use of light, color, shape, scale, texture, rhythm and sound. Experiencing Architecture reminds us of what good architectural design has accomplished over time, what it can accomplish still, and why it is worth pursuing. Wide-ranging and approachable, it is for anyone who has ever wondered “what instrument the architect plays on.”

The aerospace industry increasingly relies on advanced numerical simulation tools in the early design phase. This volume provides the results of a German initiative which combines many of the CFD development activities from the German Aerospace Center (DLR), universities, and aircraft industry. Numerical algorithms for structured and hybrid Navier-Stokes solvers are presented in detail. The capabilities of the software for complex industrial applications are demonstrated.

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)

Hip-Hop and Dismantling the School-to-Prison Pipeline was created for K-12 students in hopes that they find tangible strategies for creating affirming communities where students, parents, advocates and community members collaborate to compose liberating and just frameworks that effectively define the school-to-prison pipeline and identify the nefarious ways it adversely affects their lives. This book is for educators, activists, community organizers, teachers, scholars, politicians, and administrators who we hope will join us in challenging the predominant preconceived notion held by many educators that Hip-Hop has no redeemable value. Lastly, the authors/editors argue against the understanding of Hip-Hop studies as primarily an academic endeavor situated solely in the academy. They understand the fact that people on streets, blocks, avenues, have been living and theorizing about Hip-Hop since its inception. This important critical book is an honest, thorough, powerful, and robust examination of the ingenious and inventive ways people who have an allegiance to Hip-Hop work tirelessly, in various capacities, to dismantle the school-to-prison pipeline.

Throughout most of history, in China the insane were kept within the home and treated by healers who claimed no specialized knowledge of their condition. In the first decade of the twentieth century, however, psychiatric ideas and institutions began to influence longstanding beliefs about the proper treatment for the mentally ill. In The Invention of Madness, Emily Baum traces a genealogy of insanity from the turn of the century to the onset of war with Japan in 1937, revealing the complex and convoluted ways in which “madness” was transformed in the Chinese imagination into “mental illness.” ? Focusing on typically marginalized historical actors, including municipal functionaries and the urban poor, The Invention of Madness shifts our attention from the elite desire for modern medical care to the ways in which psychiatric discourses were implemented and redeployed in the midst of everyday life. New meanings and practices of madness, Baum argues, were not just imposed on the Beijing public but continuously invented by a range of people in ways that reflected their own needs and interests. Exhaustively researched and theoretically informed, The Invention of Madness is an innovative contribution to medical history, urban studies, and the social history of twentieth-century China.

Prediction methods for sonic boom generation and propagation with overpressure minimization in supersonic transport design and operation.

The biggest hurdle for junior scholars looking to embark on an academic career is to make the transition from PhD candidate to that first (ideally tenured) job. An imperative part of this process

is getting published and yet - increasingly - this is becoming something harder to achieve.
This volume contains the papers of the 11th Symposium of the AG STAB (German Aerospace Aerodynamics Association). In this association those scientists and engineers from universities, research-establishments and industry are involved, who are doing research and project work in numerical and experimental fluid mechanics and aerodynamics for aerospace and other applications. Many of the contributions are giving results from the "Luftfahrtforschungsprogramm der Bundesregierung (German Aeronautical Research Programme). Some of the papers report on work sponsored by the Deutsche Forschungsgemeinschaft, DFG, which also was presented at the symposium. The volume gives a broad overview over the ongoing work in this field in Germany.
Large Eddy Simulation is a relatively new and still evolving computatio nal strategy for predicting turbulent flows. It is now widely used in research to elucidate fundamental interactions in physics of turbulence, to predict phe nomena which are closely linked to the unsteady features of turbulence and to create data bases against which statistical closure models can be asses sed. However, its applicability to complex industrial flows, to which statisti cal models are applied routinely, has not been established with any degree of confidence. There is, in particular, a question mark against the prospect of LES becoming an economically tenable alternative to Reynolds-averaged N avier-Stokes methods at practically high Reynolds numbers and in complex geometries. Aerospace flows pose particularly challenging problems to LES, because of the high Reynolds numbers involved, the need to resolve accura tely small-scale features in the thin and often transitional boundary layers developing on aerodynamic surfaces. When the flow also contains a separated region - due to high incidence, say - the range and disparity of the influen tial scales to be resolved is enormous, and this substantially aggravates the problems of resolution and cost. It is just this combination of circumstances that has been at the heart of the project LESFOIL to which this book is devoted. The project combined the efforts, resources and expertise of 9 partner organisations, 4 universities, 3 industrial companies and 2 research institu tes.
Collins New GCSE Maths Homework Books are excellent companions to Collins New GCSE Maths Student Books. Following the familiar structure and layout of the Student Book, the Homework Book provides extensive practice of all the elements of the new curriculum at Grades G to C to ensure that your students achieve the best grades in mathematics. Collins New GCSE Maths EDEXCEL Linear Homework Book Foundation 1 is written by experienced teachers and examiners, and provides comprehensive practice for all the topics covered in Collins New GCSE Maths EDEXCEL Linear Student Book Foundation 1. It fully supports your students in learning the new 2010 GCSE Maths EDEXCELspecification and will ensure that they achieve the best grades: * Provide excellent additional practice for all topics covered in the Student Book with brand-new questions not found in the Student Book * Enable students to assess their own progress through each chapter with familiar colour-coded grades in every exercise * Extend students' thinking and problem-solving skills with open-ended investigative tasks at the end of every chapter * Assess students' work with answers to homework questions conveniently located in Collins New GCSE Maths [EDEXCEL Linear Teacher's Pack Foundation 1 * Give students easy reference to the clear explanations and examples in their textbooks with a free CD-ROM of Collins New GCSE Maths EDEXCEL Linear Student Book Foundation 1 with every Homework Book
Online version: Technical papers portion of the SAE Digital Library references thousands of SAE Technical Papers covering the latest advances and research in all areas of mobility engineering including ground vehicle, aerospace, off-highway, and manufacturing technology. Sample coverage includes fuels and lubricants, emissions, electronics, brakes, restraint systems, noise, engines, materials, lighting, and more. Your SAE service includes detailed summaries, complete documents in PDF, plus document storage and maintenance
In 1802, Jean-Francois Champollion was eleven years old. That year, he vowed to be the first person to read Egypt’s ancient hieroglyphs. Champollion’s dream was to sail up the Nile in Egypt and uncover the secrets of the past, and he dedicated the next twenty years to the challenge. James Rumford introduces the remarkable man who deciphered the ancient Egyptian script and fulfilled a lifelong dream in the process. Stunning watercolors bring Champollion’s adventure to life in a story that challenges the mind and touches the heart.
Run away to the Metropolitan Museum of Art with E. L. Konigsburg’s beloved classic and Newbery Medal–winning novel From the Mixed-Up Files of Mrs. Basil E. Frankweiler—now available in a deluxe keepsake edition! Claudia knew that she could never pull off the old-fashioned kind of running away…so she decided to run not from somewhere but to somewhere. That was how Claudia and her brother, Jamie, ended up living in the Metropolitan Museum of Art—and right in the middle of a mystery that made headlines. Celebrate the legacy of the Newbery Medal–winning classic with this special edition.
Following the hidden lives of the global “1%”, this book examines the networks, social practices, marriages, and machinations of the elite in Pakistan. In doing so, it reveals the daily, even mundane, ways in which elites contribute to and shape the inequality that characterizes the modern world. Operating in a rapidly developing economic environment, the experience of Pakistan’s wealthiest and most powerful members contradicts widely held assumptions that economic growth is leading to increasingly impersonalized and globally standardized economic and political structures.
Why and how is America contested by Europe? This new book answers this question and contributes to a better understanding of contemporary transatlantic tensions. Adopting different theoretical perspectives, the leading contributors to this volume assess the European discontent with America and relate this to the unilateral turn of US foreign policy in the twenty-first century. American unilateralism is interpreted by all the authors as the expression of a new conservative nationalism which has been growing in the country since the 1970s and became culturally hegemonic after 9/11. They explore the following key areas: the rise of American conservative nationalism US foreign policy transatlantic relations anti-Americanism the Iraq War the future of American political and cultural hegemony. This book will be vital reading for students of international relations, foreign policy analysis, American and European politics.
Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s, their safety, efficiency and environmental friendliness have improved considerably. Main contributors to this have been gas turbine engine technology, advanced materials, computational aerodynamics, advanced structural analysis and on-board systems. Since aircraft design became a highly multidisciplinary activity, the development of multidisciplinary optimization (MDO) has become a popular new discipline. Despite this, the application of MDO during the conceptual design phase is not yet widespread. Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes presents a quasi-analytical optimization approach based on a concise set of sizing equations. Objectives are aerodynamic efficiency, mission fuel, empty weight and maximum takeoff weight. Independent design variables studied include design cruise altitude, wing area and span and thrust or power loading. Principal features of integrated concepts such as the blended wing and body and highly non-planar wings are also covered. The quasi-analytical approach enables designers to compare the results of high-fidelity MDO optimization with lower-fidelity methods which need far less computational effort. Another advantage to this approach is that it can provide answers to “what if” questions rapidly and with little computational cost. Key features: Presents a new

fundamental vision on conceptual airplane design optimization Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag Offers insight into the derivation of design sensitivity information Emphasizes design based on first principles Considers pros and cons of innovative configurations Reconsiders optimum cruise performance at transonic Mach numbers Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes advances understanding of the initial optimization of civil airplanes and is a must-have reference for aerospace engineering students, applied researchers, aircraft design engineers and analysts.

Compiled by German natural products chemist Wolfgang Steglich and his co-editors Burkhard Fugmann and Susanne Lang-Fugmann, RÖMPP Encyclopedia Natural Products provides highly reliable and comprehensive information on the 6,000 most relevant natural substances, including 15,000 cross references and 2,200 formulas. The book contains descriptions of the different substance classes and important analytical methods, comprehensive indices of Latin Species names and molecular formulas as well as a vast amount of cross referencing. It has been compiled by 40 leaders in their respective fields. Written in a clear, consistent style and thoroughly copy edited, this is a must-have reference work for chemists, biochemists working with natural products, researchers in plant protection, pharmacists and medical researchers, biologists working in drug research as well as microbiologists and botanists working on microorganisms, plants or marine organisms, and interested layman.

An authoritative reference resource on Australian English, the 4th edition of 'The Macquarie Dictionary' contains many examples of usage and etymology, as well as including entries on the people and places of Australia and the rest of the world.

Big Capital in an Unequal WorldThe Micropolitics of Wealth in PakistanBerghahn Books

Written over a period of twenty years the papers included here reflect the changing circumstances around the study of accounting history.