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Macquarie Dictionary Arthur Delbridge 2005 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.

Oh Myyy! George Takei 2012-11-26 "How did a 75-year old Star Trek actor become a social media juggernaut with nearly four million fans on Facebook? Why does everything he posts spread like wildfire across the ether, with tens to hundreds of thousands of likes and shares? And what can other sites,

celebrities, brands and companies do to attain his stratospheric engagement levels, which hover near 100 percent while most languish in the single digits? In this candid, hilarious and informative book, Takei recounts his experiences on platforms such as Twitter, YouTube and Facebook, where fans and pundits alike have crowned him King. He muses about everything from the nature of viral sharing, to the taming of Internet trolls, to why Yoda, bacon and cats are such popular memes. Takei isn't afraid to tell it likes he sees it, and to engage the reader just as he does his legions of fans. Both provokingly thoughtful and wickedly funny, Oh Myyy! captures and comments upon the quirky nature of our plugged-in culture. With Takei's conversational yet authoritative style, peppered with some of his favorite images from the web, readers should be prepared to LOL, even as they can't help but hear his words in their heads in that unmistakable, deep bass."--Back cover.

Transonic Symposium: Theory, Application, and Experiment 1989
Aeronautical Engineering 1991
multigrid methods Stephen F. Mccormick 2020-08-12 This book is a collection of research papers on a wide variety of multigrid topics, including applications, computation and theory. It represents proceedings of the Third Copper Mountain Conference on Multigrid Methods, which was held at Copper Mountain, Colorado.
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.

Computational Electromagnetics and Its Applications Thomas G. Campbell 2012-12-06 This volume contains the proceedings of the first ICASE/LaRC Work shop on Computational Electromagnetics and Its Applications conducted by the Institute for Computer Applications in

Science and Engineering and NASA Langley Research Center. We had several goals in mind when we decided, jointly with the Elec tromagnetics Research Branch, to organize this workshop on Computa tional Electromagnetics (CEM). Among our goals were a desire to obtain an overview of the current state of CEM, covering both algorithms and ap plications and their effect on NASA's activities in this area. In addition, we wanted to provide an attractive setting for computational scientists with expertise in other fields, especially computational fluid dynamics (CFD), to observe the algorithms and tools of CEM at work. Our expectation was that scientists from both fields would discover mutually beneficial inter connections and

relationships. Another goal was to learn of progress in solution algorithms for electromagnetic optimization and design problems; such problems make extensive use of field solvers and computational effi ciency is at a premium. To achieve these goals we assembled the renowned group of speakers from academia and industry whose talks are contained in this volume. The papers are printed in the same order in which the talks were pre sented at the meeting. The first paper is an overview of work currently being performed in the Electromagnetic Research Branch at the Langley Research Center. **Symposium Transsonicum III** Jürgen Zierep 2012-12-06 Continuing the tradition of the IUTAM Symposia TRANSSONICA, this review

of the numerical simulation and physical modelling of transonic flows presents new developments in the fields of computational and experimental aerodynamics. A major topic of the symposium proceedings is the evaluation of present numerical analysis techniques with respect to transonic aerodynamics. In the field of experimental aerodynamics, the high Reynolds number effect and the interference-free testing in transonic wind tunnels are of special interest. *Applied Mechanics Reviews* 1970

Reframing Singapore Derek Thiam Soon Heng 2009 Over the past two decades, Singapore has advanced rapidly towards becoming a both a global city-state and a key nodal point in the international economic sphere. These developments have caused us to reassess how we understand this changing nation, including its history, population, and geography, as well as its transregional and transnational experiences with the external world. This collection spans several disciplines in the humanities and social sciences and draws on various theoretical approaches and methodologies in order to produce a more refined understanding of Singapore and to reconceptialize the challenges faced by the country and its peoples. Foundations of Deep Reinforcement Learning Laura Graesser 2019-11-20 The Contemporary Introduction to Deep Reinforcement Learning that Combines Theory and Practice Deep reinforcement learning (deep RL) combines deep

learning and reinforcement learning, in which artificial agents learn to solve sequential decision-making problems. In the past decade deep RL has achieved remarkable results on a range of problems, from single and multiplayer games—such as Go, Atari games, and DotA 2—to robotics. Foundations of Deep Reinforcement Learning is an introduction to deep RL that uniquely combines both theory and implementation. It starts with intuition, then carefully explains the theory of deep RL algorithms, discusses implementations in its companion software library SLM Lab, and finishes with the practical details of getting deep RL to work. This guide is ideal for both computer science students and software engineers who are familiar with basic machine learning concepts and have a working understanding of Python. Understand each key aspect of a deep RL problem Explore policy- and value-based algorithms, including REINFORCE, SARSA, DQN, Double DQN, and Prioritized Experience Replay (PER) Delve into combined algorithms, including Actor-Critic and Proximal Policy Optimization (PPO) Understand how algorithms can be parallelized synchronously and asynchronously Run algorithms in SLM Lab and learn the practical implementation details for getting deep RL to work Explore algorithm benchmark results with tuned hyperparameters Understand how deep RL environments are designed Register your book for convenient access to downloads,

updates, and/or corrections as they become available. See inside book for details. **Naplan*-style Test Pack Year 5** Alan Horsfield 2010
Supercomputing Jiro Kondo 2012-12-06 As the technology of Supercomputing processes, methodologies for approaching problems have also been developed. The main object of this symposium was the interdisciplinary participation of experts in related fields and passionate discussion to work toward the solution of problems. An executive committee especially arranged for this symposium selected speakers and other participants who submitted papers which are included in this volume. Also included are selected extracts from the two sessions of panel discussion, the "Needs and Seeds of Supercomputing", and "The Future of Supercomputing", which arose during a wide-ranging exchange of viewpoints.
Selective Schools/scholarship Tests Coroneos Publications 1990
The Newton Papers Sarah Dry 2014-04-11 When Isaac Newton died in 1727 without a will, he left behind a wealth of papers that, when examined, gave his followers and his family a deep sense of unease. Some of what they contained was wildly heretical and alchemically obsessed, hinting at a Newton altogether stranger and less palatable than the one enshrined in Westminster Abbey as the paragon of English rationality. These manuscripts had the potential to undermine not merely Newton's

reputation, but that of the scientific method he embodied. They were immediately suppressed as "unfit to be printed," and, aside from brief, troubling glimpses spread across centuries, the papers would remain hidden from sight for more than seven generations. In The Newton Papers, Sarah Dry illuminates the tangled history of these private writings over the course of nearly three hundred years, from the long span of Newton's own life into the present day. The writings, on subjects ranging from secret alchemical formulas to impassioned rejections of the Holy Trinity, would eventually come to light as they moved through the hands of relatives, collectors, and scholars. The story of their disappearance, dispersal, and rediscovery is populated by a diverse cast of characters who pursued and possessed the papers, from economist John Maynard Keynes to controversial Jewish Biblical scholar Abraham Yahuda. Dry's captivating narrative moves between these varied personalities, depicting how, as they chased the image of Newton through the thickets of his various obsessions, these men became obsessed themselves with the allure of defining the "true" Newton. Dry skillfully accounts for the ways with which Newton's pursuers have approached his papers over centuries. Ultimately, The Newton Papers shows how Newton has been made and re-made throughout history by those seeking to reconcile the cosmic contradictions of an extraordinarily complex man.

Control and Dynamic Systems V38: Advances in Aeronautical Systems C.T. Leonides 2012-12-02 Advances in Aeronautical Systems shows that real-time simulation of aeronautical systems is fundamental in the analysis, design, and testing of today's increasingly complex aeronautical systems. Perhaps more important is the fact that simulation, including 3-D vision and motion simulation techniques, is an essential element in pilot training for both commercial and military aircraft. An essential characteristic of all modern aeronautical systems is their avionics system, which is composed of many elements, in particular sensor systems. This book comprises eight chapters, with the first focusing on aircraft automatic flight control system with model inversion. The following chapters then discuss information systems for supporting design of complex human-machine systems and formulation of a minimum variance deconvolution technique for compensation of pneumatic distortion in pressure-sensing devices. Other chapters cover synthesis and validation of feedback guidance laws for air-to-air interceptions; multistep matrix integrators for real-time simulation; the role of image interpretation in tracking and guidance; continuous time parameter estimation: analysis via a limiting ordinary differential equation; and in-flight alignment of inertial navigation systems. This book will be of interest to practitioners in the fields of engineering and aeronautics.

Academic Literacy Albert Weideman 2007-01-01 Academic literacy - prepare to learn is different from traditional courses in that it is task-based: it requires of language learners who are developing their academic literacy to do authentic academic tasks and to solve real academic problems.

Diagnostic Techniques in Industrial Engineering Mangey Ram 2017-10-20 This book presents the most important tools, techniques, strategy and diagnostic methods used in industrial engineering. The current widely accepted methods of diagnosis and their properties are discussed. Also, the possible fruitful areas for further research in the field are identified.

AIAA Student Journal American Institute of Aeronautics and Astronautics 1997

A Collection of Technical Papers 1977

Parentology Dalton Conley 2014-03-18 An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom…bound to change your thinking about parenting and its conventions" (Amy Chua, author of Battle Hymn of the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific

research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

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 has 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. **Canadian Aeronautics and Space Journal** 1991 *Modeling Complex Turbulent Flows* Manuel D. Salas 1999-04-30 Turbulence modeling both addresses a fundamental problem in physics, 'the last great unsolved problem of classical physics,' and has far-reaching importance in the solution of difficult practical problems from aeronautical engineering to dynamic meteorology. However, the growth of supercom puter facilities has recently caused an apparent shift in the focus of tur bulence research from modeling to direct numerical simulation (DNS) and large eddy

simulation (LES). This shift in emphasis comes at a time when claims are being made in the world around us that scientific analysis itself will shortly be transformed or replaced by a more powerful 'paradigm' based on massive computations and sophisticated visualization. Although this viewpoint has not lacked ar ticulate and influential advocates, these claims can at best only be judged premature. After all, as one computational researcher lamented, 'the com puter only does what I tell it to do, and not what I want it to do. ' In turbulence research, the initial speculation that computational meth ods would replace not only model-based computations but even experimen tal measurements, have not come close to fulfillment. It is becoming clear that computational methods and model development are equal partners in turbulence research: DNS and LES remain valuable tools for suggesting and validating models, while turbulence models continue to be the preferred tool for practical computations. We believed that a symposium which would reaffirm the practical and scientific importance of turbulence modeling was both necessary and timely. NASA Technical Paper United States. National Aeronautics and Space Administration 1979 *Poor Economics* Abhijit Banerjee 2012-03-27 The winners of the Nobel Prize in Economics upend the most common assumptions about how economics works in this gripping and disruptive portrait of how poor people actually live. Why do the poor borrow

to save? Why do they miss out on free life-saving immunizations, but pay for unnecessary drugs? In Poor Economics, Abhijit V. Banerjee and Esther Duflo, two award-winning MIT professors, answer these questions based on years of field research from around the world. Called "marvelous, rewarding" by the Wall Street Journal, the book offers a radical rethinking of the economics of poverty and an intimate view of life on 99 cents a day. Poor Economics shows that creating a world without poverty begins with understanding the daily decisions facing the poor.

Getting Published Gerald B. Jackson 2009 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.

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 Technical Paper 1990

Newsletter; No.10 (1968)

Harvard University Museum of Compara 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. **AGARDograph** 1982 Set includes some issues published under later name: RTO AGARDograph, e.g. no. 300, v. 16. Symposium Transsonicum II K. Oswatitsch 2012-12-06 The first Symposium Transsonicum took pl.ace in Aachen thirteen years ago during a period of decreasing governmental. and industrial. support for transonic flow research. Since then, there has been a strong revival. in interest in transonic flow research so that the number of partici pants at the second symposium remained about the same as at the first even in spite of tight financial. means and Limited governmental.

support. During both meetings the number of participants reached the upper Limit of the number desirabl.e for such a symposium. Participants came from aU over the worl.d and there was a weU bal.anced distribution of participants from aU countries interested in transonic flow research. The discussions - mostLy conducted in EngLish - were stimul.ating and there was a great deal. of interest in the l.ectures as was shown by the good attendance even during the l.ast session on Saturday morning.
Numerical Methods in Fluid Dynamics Franco Brezzi 2006-11-14
SBB Maths Olympiad Workbook - Class 1 Preeti Goel 2020-09-10
Electrical Conductive Adhesives with Nanotechnologies Yi (Grace) Li 2009-10-08 "Electrical Conductive Adhesives with Nanotechnologies" begins with an overview of electronic packaging and discusses the various adhesives options currently available, including lead-free solder and ECAs (Electrically Conductive Adhesives). The material presented focuses on the three ECA categories specifically, Isotropically Conductive Adhesives (ICAs) Anisotropically Conductive Adhesives/Films (ACA/ACF) and Nonconductive Adhesives/Films (NCA/NCF). Discussing the advantages and limitations of each technique, and how each technique is currently applied. Lastly, a detailed presentation of how nano techniques can be applied to conductive adhesives is discussed, including recent research and development

of nano component adhesives/nano component films, their electrical properties, thermal performance, bonding pressure and assembly and reliability.
MEGAFLOW - Numerical Flow Simulation for Aircraft Design Norbert Kroll 2006-10-02 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.
Combustion in High-Speed Flows John Buckmaster 2012-12-06 This volume contains the proceedings of the Workshop on Com bustion, sponsored by the Institute for Computer Applications in Science and Engineering (ICASE) and the NASA Langley Research Center (LaRC). It was held on October 12-14, 1992, and was the sec ond workshop in the series on the subject. The first was held in 1989, and its proceedings were published by Springer-Verlag under the title "Major Research Topics in Combustion," edited by M. Y. Hussaini, A. Kumar, and R. G. Voigt. The focus of the second workshop was directed towards the development, analysis, and application of basic models in high speed propulsion of particular interest to NASA. The exploration of a dual approach combining asymptotic and numerical

methods for the analysis of the models was particularly encouraged. The objectives of this workshop were i) the genesis of models that would capture or reflect the basic pllysical phenomena in SCRAMJETs and/or oblique detonation-wave engines (ODWE), and ii) the stimulation of a greater interaction between NASA exper imental research community and the academic community. The lead paper by D. Bushnell on the status and issues of high speed propulsion relevant to both the SCRAMJET and the ODWE parallels his keynote address which set the stage of the workshop. Following the lead paper were five technical sessions with titles and chairs: Experiments (C. Rogers), Reacting Free Shear Layers (C. E. Grosch), Detonations (A. K. Kapila), Ignition and Struc ture (J. Buckmaster), and Unsteady Behaviour ('1'. L. Jackson).
International Aerospace Abstracts 1998 *Organizational Survival in the New World* Alex Bennet 2004-02-18 In this book David and Alex Bennet propose a new model for organizations that enables them to react more quickly and fluidly to today's fast-changing, dynamic business environment: the Intelligent Complex Adaptive System (ICAS). ICAS is a new organic model of the firm based on recent research in complexity and neuroscience, and incorporating networking theory and knowledge management, and turns the living system metaphor into a reality for organizations. This book synthesizes new thinking about organizational structure from the fields listed

above into ICAS, a new systems model for the successful organization of the future designed to help leaders and managers of knowledge organizations succeed in a non-linear, complex, fast-changing and turbulent environment. Technology enables connectivity, and the ICAS model takes advantage of that connectivity by fostering the development of dynamic, effective and trusting relationships in a new organizational structure. This book outlines the model in chapter four, and then breaks down the model into its components in the next two chapters. This is a benefit to readers since different components of the model can be implemented at different times, so the book can guide implementation of one or all of the components as a manager sees fit. There are eight characteristics of the ICAS: organizational intelligence, unity and shared purpose, optimum complexity, selectivity, knowledge centricity, flow, permeable boundaries, and multi-dimensionality.

Math Practice, Grade 5 2014-03-15 Kelley Wingate's Math Practice for fifth grade is designed to help students master basic math skills through focused math practice. Practice pages will be leveled in order to target each student's individual needs for support. Some pages will provide clear, step-by-step examples. The basic skills covered include multiplication and division of fractions, more advanced division, decimals, volume, and a comprehensive selection of other fifth grade math skills. This well-

known series, Kelley Wingate, has been updated to align content to the Common Core State Standards. The 128-page books will provide a strong foundation of basic skills and will offer differentiated practice pages to make sure all students are well prepared to succeed in today's Common Core classroom. The books will include Common Core standards matrices, cut-apart flashcard sections, and award certificates. This series is designed to engage and recognize all learners, at school or at home.