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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 aerolasticity; 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 modelling 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." Sébastien Deck, Onera, Meudon, France
New Results in Numerical and Experimental Fluid Mechanics XI-Andreas Dillmann 2017-10-29 This book gathers contributions to the 20th biannual symposium of the German Aerospace Aerodynamics Association (STAB) and the German Society for Aeronautics and Astronautics (DGLR). The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics, mainly for (but not limited to) aerospace applications, and cover both nationally and EC-funded projects. Special emphasis is given to collaborative research projects conducted by German scientists and engineers from universities, research-establishments and industries. By addressing a number of cutting-edge applications, together with the relevant physical and mathematics fundamentals, the book provides readers with a comprehensive overview of the current research work in the field. Though the book's primary emphasis is on the aerospace context, it also addresses further important applications, e.g. in ground transportation and energy.
Handbook on Measurement, Assessment, and Evaluation in Higher Education-Charles Secolsky 2017-07-31 In this valuable resource, well-known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement, assessment, and evaluation, with guidance on how to apply these ideas for the benefit of students and institutions. Bringing together terminology, analytical perspectives, and methodological advances, this second edition facilitates informed decision-making while connecting the latest thinking in these methodological areas with actual practice in higher education. This research handbook provides higher education administrators, student affairs personnel, institutional researchers, and faculty with an integrated volume of theory, method, and application.
Aerial Robots-Omar D Lopez Mejia 2017-09-06 Few years ago, the topic of aerial robots was exclusively related to the robotics community, so a great number of books about the dynamics and control of aerial robots and UAVs have been written. As the control technology for UAVs advances, the great interaction that exists between other systems and elements that are as important as control such as aerodynamics, energy efficiency, acoustics, structural integrity, and applications, among others has become evident. Aerial Robots - Aerodynamics, Control, and Applications is an attempt to bring some of these topics related to UAVs together in just one book and to look at a selection of the most relevant problems of UAVs in a broader engineering perspective.
IDIHOM: Industrialization of High-Order Methods - A Top-Down Approach-Norbert Kroll 2015-01-02 The book describes the main findings of the EU-funded project IDIHOM (Industrialization of High-Order Methods - A Top-Down Approach). The goal of this project was the improvement, utilization and demonstration of innovative higher-order simulation capabilities for large-scale aerodynamic application challenges in the aircraft industry. The IDIHOM consortium consisted of 21 organizations, including aircraft manufacturers, software vendors, as well as the major European research establishments and several universities, all of them with proven expertise in the field of computational fluid dynamics. After a general introduction to the project, the book reports on new approaches for curved boundary-grid generation, high-order solution methods and visualization techniques. It summarizes the achievements, weaknesses and perspectives of the new simulation capabilities developed by the project partners for various industrial applications, and includes internal- and external-aerodynamic as well as multidisciplinary test cases.
The SAT Subject Test™ - Math Level 1-Research and Education Association 2006-03-14 REA's new SAT Subject Test: Math Level 1 Test Prep includes two of the book's six practice tests on TESTware software in a timed format. Each test is modeled after the actual exam. Topics are comprehensively reviewed and include: algebra, geometry (plane, solid, and coordinate), basic trigonometry, functions, statistics and probability, and miscellaneous topics. Also, strategies for calculators, test tips, and a study guide. TESTware software on CD-ROM features: - 2 full-length timed practice exams for the closest experience to taking a live exam - Automatic & instant scoring for immediate feedback - Detailed, on-screen explanations for all questions DETAILS - 6 full-length practice exams - Targeted reviews that hone test skills - Thoroughly detailed explanations for all questions and answers - Packed with tips and strategies - Windows CD-ROM with 2 timed, computerized practice exams & instant scoring System Requirements: CPU: Pentium 75 MHz (300 MHz recommended) or higher processor. Operating System: Microsoft Windows 95, 98, NT 4 (SP6), Me, 2000, or XP. Available RAM: 64 MB minimum.
What Do Science, Technology, and Innovation Mean from Africa?-Clapperton Chakanetsa Mavhunga 2017-06-16 Clapperton Mavhunga's collection of essays about science, technology, and innovation (STI) from an African perspective opens with the idea, "Things do not (always) mean the same from everywhere; when we insist that only 'our' meaning is the meaning, we silence other people's meanings." Mavhunga and his contributors argue that our contemporary definitions of STI are those of countries and cultures that have acquired their dominance of others through global empires, and as a counter to that, Mavhunga seeks to put the concepts of STI into question, exploring what the technological, scientific, and innovative might mean from Africa in lieu of outside introductions or influences. We strongly feel that this book is suited to the Knowledge Unlatched program because of the difficulty of reaching markets and readers in Africa with print books. We feel unlatching would go a long way toward helping Mavhunga reach an important audience for this work that we have been previously unable to reach.
The Book of Evidence-Peter Achinstein 2001-09-20 What is required for something to be evidence for a hypothesis? In this fascinating, elegantly written work, distinguished philosopher of science Peter Achinstein explores this question, rejecting typical philosophical and statistical theories of evidence. He claims these theories are much too weak to give scientists what they want—a good reason to believe—and, in some cases, they furnish concepts that mistakenly make all evidential claims a priori. Achinstein introduces four concepts of evidence, defines three of them by reference to "potential" evidence, and characterizes the latter using a novel epistemic interpretation of probability. The resulting theory is then applied to philosophical and historical issues. Solutions are provided to the "grue," "ravens," "lottery," and "old-evidence" paradoxes, and to a series of questions. These include whether explanations or predictions furnish more evidential weight, whether individual hypotheses or entire theoretical systems can receive evidential support, what counts as a scientific discovery, and what sort of evidence is required for it. The historical questions include whether Jean Perrin had non-circular evidence for the existence of molecules, what type of evidence J. J. Thomson offered for the existence of the electron, and whether, as is usually supposed, he really discovered the electron. Achinstein proposes answers in terms of the concepts of evidence introduced. As the premier book in the fabulous new series Oxford Studies in Philosophy of Science, this volume is essential for philosophers of science and historians of science, as well as for statisticians, scientists with philosophical interests, and anyone curious about scientific reasoning.
The Devil and the River-R.J. Ellory 2018-03-06 Internationally bestselling author R.J. Ellory returns with his latest thriller of murder, deceit, and intrigue—"an energetic and winning exercise in pulp fiction with a Southern Gothic flavor" (METRO).On a perfect summer evening in 1954, sixteen-year-old Nancy Denton walked into the woods of her hometown of Whytesburg, Mississippi. She was never seen again. Two decades later, Sheriff John Gaines witnesses a harrowing discovery: A young woman has been unearthed from the riverbank, her body perfectly preserved, yet she bears evidence of a brutal ritualistic killing. Nancy has come home at last, but her return does not bring closure to her family, or to the citizens of Whytesburg. What really happened to the beautiful and vivacious Nancy? And why do her friends refuse to talk? As Gaines closes in on the truth, he is forced to not only confront his own demons, but to unearth secrets that have long remained hidden. And that truth, so much darker than he could ever have imagined, may be the one thing that finally destroys him. The Devil and the River is the tense and shadowy story that will haunt you from its very first pages.
The Art and Craft of Poetry-Michael J. Bugeja 2001 Designed to teach the craft of writing poetry, this volume discusses the different types of poems, detailing the steps in writing each type, and includes examples of poems by such masters as Milton, Poe, Shakespeare, Rossetti, and Eliot.
Mister Pip-Lloyd Jones 2011-04-04 Lloyd Jones' new novel is set mainly in a small village on Bougainville, a country torn apart by civil war. Matilda attends the school set up by Mr Watts, the only white man on the island. By his own admission he's not much of a teacher and proceeds to educate the children by reading them Great Expectations. Matilda falls in love with the novel, strongly identifying with Pip. The promise of the next chapter is what keeps her going; Pip's story protects her from the horror of what is happening around her - helicopters menacing the skies above the village and rebel raids on the ground. When the rebels visit the village searching for any remaining men to join their cause, they discover the name Pip written in the sand and instigate a search for him. When Pip can't be found the soldiers destroy the book. Mr Watts then encourages the children to retell the story from their memories. Then when the rebels invade the village, the teacher tells them a story which lasts seven nights, about a boy named Pip, and a convict. . .
Feature Papers-Michael Henson 2018-10-04 This book is a printed edition of the Special Issue "Feature Papers" that was published in Processes
Hyperspectral Data Processing-Chen-I Chang 2013-02-01 Hyperspectral Data Processing: Algorithm Design andAnalysis is a culmination of the research conducted in theRemote Sensing Signal and Image Processing Laboratory (RSSIPL) atthe University of Maryland, Baltimore County. Specifically, ittreats hyperspectral image processing and hyperspectral signalprocessing as separate subjects in two different categories. Mostmaterials covered in this book can be used in conjunction with theauthor's first book, Hyperspectral Imaging: Techniques forSpectral Detection and Classification, without muchoverlap. Many results in this book are either new or have not beenexplored, presented, or published in the public domain. Theseinclude various aspects of endmember extraction, unsupervisedlinear spectral mixture analysis, hyperspectral informationcompression, hyperspectral signal coding and characterization, aswell as applications to conceal target detection, multispectralimaging, and magnetic resonance imaging. Hyperspectral DataProcessing contains eight major sections: Part I: provides fundamentals of hyperspectral dataprocessing Part II: derives theory for supervised linear spectral mixtureanalysis Part III: derives theory for supervised linear spectral mixtureanalysis Part IV: designs unsupervised methods for hyperspectral imageanalysis Part V: explores new concepts on hyperspectral informationcompression Parts VI & VII: develops techniques for hyperspectralsignal coding and characterization Part VIII: presents applications in multispectral imaging andmagnetic resonance imaging Hyperspectral Data Processing compiles an algorithmcompendium with MATLAB codes in an appendix to help readersimplement many important algorithms developed in this book andwrite their own program codes without relying on softwarepackages. Hyperspectral Data Processing is a valuable reference forthose who have been involved with hyperspectral imaging and istechniques, as well those who are new to the subject.
Social Control and Justice-Maria João Guia 2013-01-01 This book offers a fresh, multi-disciplinary, and international examination of a phenomenon that has altered the landscape of migration in the United States and is now taking root in Canada and throughout Europe: 'crimmigration law.' Crimmigration law consists of the letter and practice of laws and policies at the intersection of criminal law and immigration law. Crimmigration scholars study the creation of laws and policies, their enforcement, as well as the institutional dynamics that create crimmigration law and are created by it. Many have written about the use of crimmigration law to exert social control over groups marginalized by ethnic bias, class, or citizenship status. This book's contents include: Crimmigration, Securitization, and the Criminal Law of the Crimmigrant * A Reflection on Crimmigration in the Netherlands * Entering the Risk Society: A Contested Terrain for Immigration Enforcement * The Changing Landscape of the Criminalization of Migration in Europe * Disappearing Rights: How States Are Eroding Membership in American Society * The Impact of Immigration Enforcement Outsourcing on Ice Priorities * The Spirit of Crimmigration * Crime and Immigration: The Discourses of Fear as a Theoretical Approach of Critical Evaluation * Recorded Crime Committed by Migrant Groups and Native Dutch in the Netherlands * The Foreign-Born in the Canadian Federal Correctional Population * The Impact of Safety on Levels of Ethnocentrism * The Control of Irregular Migrants and the Criminal Law of the Enemy * Crime among Irregular Immigrants and the Influence of Crimmigration Processes * The Wide Scope of Immigration in the Azores and Its Relationship with Crime * Irregular Immigrants and Their Irish Citizen Children: The Limits of National Citizenship * The Treaty of Prum * Unauthorized Migration
Accounting Theory-Harry I. Wolk 2016-06-04 This updated Ninth Edition of Accounting Theory: Conceptual Issues in a Political and Economic Environment continues to be one of the most relevant and comprehensive texts on accounting theory. Authors Harry I. Wolk, James L. Dodd, John J. Rozycki provide a critical overview of accounting as a whole as well as touch on the financial issues in economic and political contexts, providing readers with an applied understanding of how current United States accounting standards were derived and where we might be headed in the future. Readers will find learning tools such as questions, cases, problems and writing assignments to solidify their understanding of accounting theory and gain new insights into this evolving field.
Fundamentals of Computational Fluid Dynamics-H. Lomax 2013-03-09 The chosen semi-discrete approach of a reduction procedure of partial differential equations to ordinary differential equations and finally to difference equations gives the book its distinctiveness and provides a sound basis for a deep understanding of the fundamental concepts in computational fluid dynamics.
Financial Crises: Causes, Consequences, and Policy Responses-Stijn Claessens 2014-02-19 Financial Crises: Causes, Consequences, and Policy Responses provides a comprehensive overview of research into financial crises and policy lessons learned. The book covers a wide range of crises, including banking, balance of payments, and sovereign debt crises. It begins with an overview of the various types of crises and introduces a comprehensive database of crises. Broad lessons on crisis prevention and management, as well as the short-term economic effects of crises, recessions, and recoveries are discussed. The medium-term effects of financial crises on economic growth, as well as policy measures to prevent booms, mitigate busts, and avoid crises are analyzed. Finally, policy measures for mitigating the adverse impact of crises and ways to restructure banks, households, and sovereigns are presented. The collection of research in this book provides an excellent overview of critical policy areas, with valuable lessons on how countries can better monitor their economies and financial systems.
Understanding To Kill a Mockingbird-Claudia Durst Johnson 1994 Collects documents and commentary illuminating Southern life in the 1950s
Advanced Flip Chip Packaging-Ho-Ming Tong 2013-03-20 Advanced Flip Chip Packaging presents past, present and future advances and trends in areas such as substrate technology, material development, and assembly processes. Flip chip packaging is now in widespread use in computing, communications, consumer and automotive electronics, and the demand for flip chip technology is continuing to grow in order to meet the need for products that offer better performance, are smaller, and are environmentally sustainable.
English Language Education in a Global World-Lap Tuen Wong 2015 With English becoming the world's foremost lingua franca, the pressure to improve English language education (ELE) has been steadily increasing. Consequently, the nature of ELE has changed drastically in the last decade. This has not only brought about a number of changes in the way English is taught and learnt, but it has also led to various innovative practices around the world. As a result, this edited book aims to shed light on the new theoretical and methodological developments in the field of ELE as well as the major issues and difficulties faced by practitioners in different parts of the globe. One very important variable that the book takes into account is the role that English already plays in a particular society since this may affect the views that teachers and students hold of the language. This in turn can significantly influence the way English is taught and learnt in given political, economic and socio-cultural settings. The purpose of this book is therefore to provide a comprehensive overview of the pedagogical methods, policies and problems that underlie English language education in ten different regions across the world, including: the USA, Canada, the UK, Australia, New Zealand, India, Singapore, Japan, China and Hong Kong. In doing so, the different chapters in the book emphasize the importance of responding to linguistic and other forms of diversity in order to develop English language education in a globalized world. This book will be useful for teachers and students of English language, for English language curriculum and materials developers, and for those involved in educational policy-making and language acquisition research. Written by experts in the field, the range of content covered in the book's chapters will also help policy-makers, researchers and practitioners develop effective English language education practices and policies, and propose solutions to emerging issues in English language teaching and learning in different environments around the world. The newly-developed arguments and concerns pertaining to English language education will serve as future reference for professionals interested in this area of expertise.
Encyclopedia of the Jewish Diaspora - 2009 Includes a thorough bibliography pointing the way to the finest print and online resources for further reading
International Aerospace Abstracts- 1970
Sports Finance 2018-Angel Barajas 2019-10-16 Sports economics is a relatively new field of research that is experiencing rapid growth in the economics literature. The importance of the sports industry to economies coupled with the availability of financial and productivity data have made the study of sports economics a useful avenue for exploring research questions that have eluded mainstream economics fields. The main goal of this Special Issue of the International Journal of Financial Studies is to encourage theoretical and applied research in sports economics, which is of interest to both academics and practitioners. For this purpose, this Special Issue on "Sports Finance" invites papers on topics, such as, but not limited to, salary determination, ticket pricing, revenue sharing, salary caps, competitive balance, new stadium financing, rival league behavior, determinants of revenue, television and media, tournament prize structures, financial distress in professional sports, financial fair play, financial control of sports clubs, Third Party Ownership, financial efficiency in professional sports, budget constraints and sport performance, financial information of sports, ownership of professional sport clubs and Crowdfunding in sports. Papers on both professional and amateur sports are welcome.
Behavioural Insights and Public Policy Lessons from Around the World-OECD 2017-03-01 This report discusses the use and reach of behavioural insights, drawing on a comprehensive collection of over 100 applications across the world and policy sectors.
Students with Learning Disabilities-Cecil D. Mercer 1987 This book addresses every aspect of learning disabilities, from assessment, definition, and characteristics through specific strategies for individual disorders. Based on a multi-theoretical foundation, the new edition of Students with Learning Disabilities integrates numerous philosophical and practical perspectives into a supportive framework of best practices for diagnosis and intervention. A clear presentation of non-teaching factors and their effect upon teaching success explores such topics as homework, class size, parental involvement, and curriculum design. There have also been coverage expansions in topics such as cultural diversity, learning strategies, social skills training, affective development, phonological awareness development, successful transition factors, effective assessment, and teaching strategies. The coverage of social-emotional problems of LD students includes discussions of the use of socio-metric measures - such as peer status - in assessment and planning. An updated reference section also helps familiarize readers with the latest available resources. By providing practical strategies, Students with Learning Disabilities is a valuable book for any parent, teacher, or school administrator who must learn to cope with LD students.
Aircraft Design-Mohammad H. Sadraey 2012-11-20 A comprehensive approach to the air vehicle design process using the principles of systems engineering Due to the high cost and the risks associated with development,complex aircraft systems have become a prime candidate for theadoption of systems engineering methodologies. This book presents the entire process of aircraft design based on a systemsengineering approach from conceptual design phase, through preliminary design phase and to detail design phase. Presenting in one volume the methodologies behind aircraftdesign, this book covers the components and the issues affected bydesign procedures. The basic topics that are essential to theprocess, such as aerodynamics, flight stability andcontrol, aero-structure, and aircraft performance are reviewedvia various chapters where required. Based on thesefundamentals and design requirements, the author explains thedesign process in a holistic manner to emphasise the integration ofthe individual components into the overall design. Throughout thebook the various design options are considered and weighed againsteach other, to give readers a practical understanding of theprocess overall. Readers with knowledge of the fundamental concepts ofaerodynamics, propulsion, aero-structure, and flight dynamics willfind this book ideal to progress towards the next stage in theirunderstanding of the topic. Furthermore, the broad variety ofdesign techniques covered ensures that readers have the freedom andflexibility to satisfy the design requirements when approachingreal-world projects. Key features: • Providesfull coverage of the design aspects of an air vehicle including:aeronautical concepts, design techniques and design flowcharts • Featuresend of chapter problems to reinforce the learning process as wellas fully solved design examples at component level • Includes fundamental explanations for aeronautical engineeringstudents and practicing engineers • Features a solutions manual to sample questions on the book'scompanion website Companion website - ahref="http://www.wiley.com/go/sadraey" www.wiley.com/go/sadraey/a Arteriovenous Fistulas-Stavropoula Tjoumakaris 2013-07-10 Arteriovenous fistulas are shunts between arteries and veins that can be found in many organs of the human body such as the brain, skin, eye and lung. These lesions can be symptomatic by causing ischemia, through the process of the steal phenomenon, or vascular congestion and subsequent hemorrhage, eg. intracerebral hemorrhage of a ruptured dural arteriovenous fistula. The etiology of these lesions is not fully understood, some are congenital and others are acquired. On the other hand, iatrogenic arteriovenous fistulas, such as in hemodialysis patients, can be a life-saving procedure. This book provides a clear and concise review of the diagnosis and management of arteriovenous fistulas throughout the human body. It could be a great resource to medical students, residents, fellows, professors and researchers in the field.
Shell Aviation News- 1964
UAV Networks and Communications-Kamesh Namuduri 2017-11-30 The first book to focus on communications and networking in UAVs, covering theory, applications, regulation, policy, and implementation.
Leading with the Future in Mind-David Bennet 2019-09-11 A tour de force for the Future of Leadership ...We exist in a new reality, a global world where the individuated power of the mind/brain offers possibilities beyond our imagination. It is within this framework that thought leading emerges, and when married to our collaborative nature, makes the impossible an everyday occurrence. Leading with the Future in Mind, building on profound insights unleashed by recent findings in neuroscience, provides a new view that converges leadership, knowledge and learning for individual and organizational advancement.This book provides a research-based tour de force for the future of leadership. Moving from the leadership of the past, for the few at the top, using authority as the explanation, we now find leadership emerging from all levels of the organization, with knowledge as the explanation. The future will be owned by the organizations that understand and can master the relationships between knowledge and leadership. Being familiar with the role of a knowledge worker is not the same as understanding the role of a knowledge leader. As the key ingredient, collaboration is much more than "getting along"; it embraces and engages. Knowledge and leadership, a quality of organizations, have always been in relationship. However, the significant mental growth emerging throughout the 20th century-where individuals at all levels began to expand their capacity to learn-and the expansion of the capacity for social knowledge in the interconnected world of the 21st century has propelled humanity into a new age. Knowledge-and the responsibility for how that knowledge is used-sits squarely on the shoulders of leadership at all levels. The nature of the organization has moved beyond the factory and process metaphor, and is now understood as an intelligent complex adaptive system (ICAS). Leading with the Future in Mind covers the essentials of working, learning, and leading in an ICAS, covering knowledge and complexity, but also passion and spiritual energy. As social creatures living in an entangled world, our brains are linked together. We are in continuous interaction with those around us, and the brain is continuously changing in response. Wrapped in the mantle of collaborative leadership and engaging our full resources-physical, mental, emotional and spiritual-we open the door to possibilities. We are dreaming the future together.
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.
Cracking the SAT Subject Test in Math 2, 2nd Edition-Princeton Review 2018-02-27 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 800. Equip yourself to ace the SAT Subject Test in Math 2 with The Princeton Review's comprehensive study guide—including 3 full-length practice tests, thorough reviews of key topics, and targeted strategies for every question type. We don't have to tell you how tough SAT Math is—or how helpful a stellar exam score can be for your chances of getting into your top-choice college. Written by the experts at The Princeton Review, Cracking the SAT Subject Test in Math 2 helps you to take on the test and achieve your highest score. Techniques That Actually Work. • Tried-and-true tactics to help you avoid traps and beat the test • Tips for pacing yourself and guessing logically • Essential strategies to help you work smarter, not harder Everything You Need to Know for a High Score. • Expert subject reviews for every test topic • Up-to-date information on the SAT Subject Test in Math 2 • Score conversion tables to help you assess your performance and track your progress Practice Your Way to Perfection. • 3 full-length practice tests (2 in the book and 1 online) with detailed answer explanations • Practice drills throughout each content chapter • End-of-chapter summaries to help you master key points This eBook edition has been optimized for on-screen learning with cross-linked questions, answers, and explanations. Shadowland-Alyson Noël 2009-11-17 Enter the realm of the Immortals—the #1 New York Times bestselling series from Alyson Noël that's been acclaimed as breathtaking, mesmerizing, flawless and extraordinary. Ever and Damen have traveled through countless past lives—and fought off the world's darkest enemies—so they could be together forever. But just when their long-awaited destiny is finally within reach, a powerful curse falls upon Damen...one that could destroy everything. Now a single touch of their hands or a soft brush of their lips could mean sudden death—plunging Damen into the Shadowland. Desperate to break the curse and save Damen, Ever immerses herself in magic—and gets help from an unexpected source...a surfer named Jude. Although she and Jude have only just met, he feels startlingly familiar. Despite her fierce loyalty to Damen, Ever is drawn to Jude, a green-eyed golden boy with magical talents and a mysterious past. She's always believed Damen to be her soulmate and one true love—and she still believes it to be true. But as Damen pulls away to save them, Ever's connection with Jude grows stronger—and tests her love for Damen like never before...
She's Gonna Blow!Julie Ann Barnhill 2005-03-01 Tens of thousands of moms who struggle with anger have found hope, laughter, understanding, and biblical counsel in She's Gonna Blow! With over 100,000 in print, this bestseller now has a fresh cover and a new practical help section with more resources and step-by-step advice. Gary Chapman, author of The Five Love Languages of Children, tells readers that Julie Ann Barnhill "has learned from her journey, and so will you...You'll identify with Julie's open, honest approach." Straightforward and easy-to-read, She's Gonna Blow! is for every mom seeking here-and-now hope and help to... find healthier ways of expressing anger let go of "control" issues and be more positive draw closer to the God who created moms and mothering
Modeling Paradigms and Analysis of Disease Transmission Models-Abba B. Gumel 2010 This volume stems from two DIMACS activities, the U.S.-Africa Advanced Study Institute and the DIMACS Workshop, both on Mathematical Modeling of Infectious Diseases in Africa, held in South Africa in the summer of 2007. It contains both tutorial papers and research papers. Students and researchers should find the papers on modeling and analyzing certain diseases currently affecting Africa very informative. In particular, they can learn basic principles of disease modeling and stability from the tutorial papers where continuous and discrete time models, optimal control, and stochastic features are introduced.
Advanced Multimedia and Ubiquitous Engineering-James J. (Jong Hyuk) Park 2016-08-29 This volume presents selected papers from prominent researchers participating in the 11th International Conference on Future Information Technology and the 10th International Conference on Multimedia and Ubiquitous Engineering, Beijing, China, April 20-22, 2016. These large international conferences provided an opportunity for academic and industry professionals to discuss recent progress in the fields of multimedia technology and ubiquitous engineering including new models and systems and novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems. The contributions contained in this book also provide more information about digital and multimedia convergence, intelligent applications, embedded systems, mobile and wireless communications, bio-inspired computing, grid and cloud computing, the semantic web, user experience and HCI, security and trust computing. This book describes the state of the art in multimedia and ubiquitous engineering, and future IT models and their applications.
Becoming a Reader-J. A. Appleyard 1994-01-28 Becoming a Reader in allowing us to predict our reading experience, allows us, as adults, to choose what to do with the power which reading gives us.
Paths toward the Modern Fiscal State-Wenkai He 2013-03-01 Wenkai He shows why England and Japan, facing crises in public finance, developed the tools and institutions of a modern fiscal state, while China, facing similar circumstances, did not. He's explanation for China's failure at a critical moment illuminates one of the most important but least understood transformations of the modern world.
Partitive Cases and Related Categories-Silvia Luraghi 2014-08-29 Argument-marking, morphological partitives have been the topic of language specific studies, while no cross-linguistic or typological analyses have been conducted. Since individual partitives of different languages have been studied, there exists a basis for a more cross-linguistic approach. The purpose of this book is to fill the gap and to bring together research on partitives in different languages.
Better Learning Through Structured Teaching-Douglas Fisher 2013-12-02 In this updated 2nd edition of the ASCD best-seller, Douglas Fisher and Nancy Frey dig deeper into the hows and whys of the gradual release of responsibility instructional framework. To gradually release responsibility is to equip students with what they need to be engaged and self-directed learners. On a day-to-day level, it means delivering lessons purposefully planned to incorporate four essential and interrelated instructional phases: Focused Instruction: Preparing students for learning by establishing lesson purpose, modeling strategies and skills, thinking aloud, and noticing how students respond. Guided Instruction: Strategically using prompts, cues, and questions to lead students to new understanding. Collaborative Learning: Allowing students to consolidate their understanding through exploration, problem-solving, discussion, and thinking with their peers. Independent Learning: Requiring students to use the skills and knowledge they've acquired to create authentic products and ask new questions. The authors explore each phase, using real-life examples from a variety of disciplines. You'll find tips and tools for classroom implementation, including checklists for planning and assessment; advice on feedback, homework, group work, differentiated instruction, and blended learning; answers to frequently asked questions; and examples that align to Common Core State Standards. No matter what grade level or subject you teach, Better Learning Through Structured Teaching is your essential guide to helping students expand their capacity for successful and long-lasting learning.

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