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Introduction to Computational Social Science - Claudio Cioffi-Revilla
2017-06-29

This textbook provides a comprehensive and reader-friendly introduction to the field of computational social science (CSS). Presenting a unified treatment, the text examines in detail the four key methodological approaches of automated social information extraction, social network analysis, social complexity theory, and social simulation modeling. This updated new edition has been enhanced with numerous review questions and exercises to test what has been learned, deepen understanding through problem-solving, and to practice writing code to implement ideas. Topics and features: contains more than a thousand questions and exercises, together with a list of acronyms and a glossary; examines the similarities and differences between computers and social systems; presents a focus on automated information extraction; discusses the measurement, scientific laws, and generative theories of social complexity in CSS; reviews the methodology of social simulations, covering both variable- and object-oriented models.

Introduction to Linear Algebra - Lee W. Johnson 2015-10-01

Introduction to Linear Algebra, Sixth Edition, is a foundation text that bridges both practical computation and theoretical principles. This book's flexible table of contents makes it suitable for students majoring in science and engineering as well as students who want an introduction to mathematical abstraction and logical reasoning. A To achieve this flexibility, the authors

focus on three principle topics: matrix theory and systems of linear equations, elementary vector space concepts, and the eigenvalue problem. This highly adaptable text is appropriate for a one-quarter or one-semester course at the sophomore/junior level, or for a more advanced class at the junior/senior level.

Functional Analysis - R.E. Edwards 2012-10-25

Massive compilation offers detailed, in-depth discussions of vector spaces, Hahn-Banach theorem, fixed-point theorems, duality theory, Krein-Milman theorem, theory of compact operators, much more. Many examples and exercises. 32-page bibliography. 1965 edition.

Recognizing Ourselves - Ellen Lewin 1998

In April 1993, as part of the March on Washington for Lesbian, Gay, and Bi Equal Rights and Liberation, hundreds of couples participated in "the Wedding," a symbolic commitment ceremony held in front of the Internal Revenue Service building. Part protest and part affirmation of devotion, the event was a reminder that marriage rights have become a major issue among lesbians and gay men, who cannot marry legally and can only claim domestic partner rights in a few locations in the United States. Yet despite official lack of recognition, same-sex wedding ceremonies have been increasing in frequency over the past decade. Ellen Lewin, who has consecrated her own lesbian relationship with a commitment ceremony, decided to explore the myriad ways in which lesbians and gay men create meaningful ceremonies for themselves. She offers the first comprehensive account of lesbian and gay weddings in modern America. A series of richly detailed profiles--the result of extensive interviews and participation in the planning and realization of many of these commitment rituals--is woven together to show how new traditions, and ultimately new families, are emerging within contemporary America. Just as the book is a moving portrait of same-sex couples today, it is also a significant political document on a new arena in the struggle for lesbian and gay rights. In a larger sense, Lewin's work is about the politics surrounding same-sex marriages and the ramifications for central dimensions of American culture such as kinship, community, morality, and love. Lewin explores the ceremonies themselves, which range from traditional church weddings to Wicca rituals in the countryside, with portraits of the planning, the joys, and the anxieties that led up to the weddings. She introduces Bob and Mark, a leather fetishist couple who sanctified their love by legally changing their last names and exchanging vows in tuxedos, leather bow ties, and knee-high police boots. In an equally absorbing profile, Lewin describes Khadija, from a working-class black family deeply suspicious of whites (and especially Jews) and Shulamith, raised in a Zionist household. She tells of how the two women struggled to reconcile their widely disparate upbringings and how they ultimately combined elements of African and Jewish traditions in their wedding. These, among many other stories, make *Recognizing Ourselves* a vivid tapestry of lesbian and gay life in post-Stonewall United States.

Optics in Our Time - Mohammad D. Al-Amri 2016-12-12

Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years. In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi-popular level. These articles are written by the world authorities in their respective fields. This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner. This volume covers five aspects related to light. The first presents two articles, one on the history of the nature of light, and the other on the scientific achievements of Ibn-Haitham

(Alhazen), who is broadly considered the father of modern optics. These are then followed by an article on ultrafast phenomena and the invisible world. The third part includes papers on specific sources of light, the discoveries of which have revolutionized optical technologies in our lifetime. They discuss the nature and the characteristics of lasers, Solid-state lighting based on the Light Emitting Diode (LED) technology, and finally modern electron optics and its relationship to the Muslim golden age in science. The book's fourth part discusses various applications of optics and light in today's world, including biophotonics, art, optical communication, nanotechnology, the eye as an optical instrument, remote sensing, and optics in medicine. In turn, the last part focuses on quantum optics, a modern field that grew out of the interaction of light and matter. Topics addressed include atom optics, slow, stored and stationary light, optical tests of the foundation of physics, quantum mechanical properties of light fields carrying orbital angular momentum, quantum communication, and Wave-Particle dualism in action.

Energy in the Americas - Amelia M. Kiddle 2021-10-15

Understanding the history of energy and the evolving place of energy in society is essential to facing the changing future of energy production. Across North and South America, national and localized understandings of energy as a common, public, or market good have influenced the development of energy industries. Energy in the Americas brings the diverse energy histories of North and South American nations into dialogue with one another, presenting an integrated hemispheric framework for understanding the historical constructions of contemporary debates on the role of energy in society. Rejecting pat truisms, this collection historicizes the experiences of producers and policymakers and assesses the interplay between environmental, technological, political, and ideological influences within and between countries and continents. Breaking down assumptions about the evolution of national energy histories, Energy in the Americas broadens and opens the conversation. De-emphasizing the traditional focus on national peculiarities, it favours an international, integrated approach that brings together the work of established and emerging scholars. This is an essential step in understanding the circumstances that have created current energy policy and practice, and the historical narratives that underpin how energy production is conceptualized and understood.

Database Security - Alfred Basta 2011-07-12

As a society that relies on technology to thrive, we face a growing number of potentially catastrophic threats to network security daily. DATABASE SECURITY delivers the know-how and skills that today's professionals must have to protect their company's technology infrastructures, intellectual property, and future prosperity. From database installation and testing to auditing and SQL Injection, this text delves into the essential processes and protocols required to prevent intrusions, and supports each topic with real-world examples that help future IT professionals understand their critical responsibilities. Unlike most texts on database security, which take a computer scientist's analytical approach, Database Security focuses on implementation, and was written expressly for the expanding field of Information Technology careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Empowered Participation - Archon Fung 2009-01-10

Every month in every neighborhood in Chicago, residents, teachers, school principals, and police officers gather to deliberate about how to improve their schools and make their streets safer. Residents of poor neighborhoods participate as much or more as those from wealthy ones. All voices are heard. Since the meetings began more than a dozen years ago, they have led not only to safer streets but also to surprising improvements in the city's schools.

Chicago's police department and school system have become democratic urban institutions unlike any others in America. Empowered Participation is the compelling chronicle of this unprecedented transformation. It is the first comprehensive empirical analysis of the ways in which participatory democracy can be used to effect social change. Using city-wide data and six neighborhood case studies, the book explores how determined Chicago residents, police officers, teachers, and community groups worked to banish crime and transform a failing city school system into a model for educational reform. The author's conclusion: Properly designed and implemented institutions of participatory democratic governance can spark citizen involvement that in turn generates innovative problem-solving and public action. Their participation makes organizations more fair and effective. Though the book focuses on Chicago's municipal agencies, its lessons are applicable to many American cities. Its findings will prove useful not only in the fields of education and law enforcement, but also to sectors as diverse as environmental regulation, social service provision, and workforce development.

The Traipsin' Woman - Jean Thomas 1933

International Encyclopedia of Political Science - Bertrand Badie 2011-09-07
Developed in partnership with the International Political Science Association this must-have, authoritative political science resource, in eight volumes, provides a definitive picture of all aspects of political life.

Digital Communications - Bernard Sklar 2016-12-23

The clear, easy-to-understand introduction to digital communications Completely updated coverage of today's most critical technologies Step-by-step implementation coverage Trellis-coded modulation, fading channels, Reed-Solomon codes, encryption, and more Exclusive coverage of maximizing performance with advanced "turbo codes" "This is a remarkably comprehensive treatment of the field, covering in considerable detail modulation, coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability theory or as a valuable reference for the practicing communication system engineer. For both communities, the treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group Master every key digital communications technology, concept, and technique. Digital Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the heart of today's wireless and Internet revolutions, providing a unified structure and context for understanding them -- all without sacrificing mathematical precision. Sklar begins by introducing the fundamentals of signals, spectra, formatting, and baseband transmission. Next, he presents practical coverage of virtually every contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance. Coverage includes: Signals and processing steps: from information source through transmitter, channel, receiver, and information sink Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth expenditure Trellis-coded modulation and Reed-Solomon codes: what's behind the math Synchronization and spread spectrum solutions Fading channels: causes, effects, and techniques for withstanding fading The first complete how-to guide to turbo codes: squeezing maximum performance out of digital connections Implementing encryption with PGP, the de facto industry standard Whether you're building wireless systems, xDSL, fiber or coax-based services, satellite networks, or Internet infrastructure, Sklar presents the theory and the practical implementation details you need. With nearly 500 illustrations and 300 problems and exercises, there's never been a

faster way to master advanced digital communications. CD-ROM INCLUDED The CD-ROM contains a complete educational version of Elanix' SystemView DSP design software, as well as detailed notes for getting started, a comprehensive DSP tutorial, and over 50 additional communications exercises.

Strategic Latency Unleashed - Zachary Davis 2021-01-30

The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

An Introduction to Modern Astrophysics - Bradley W. Carroll 2017-09-07

An Introduction to Modern Astrophysics is a comprehensive, well-organized and engaging text covering every major area of modern astrophysics, from the solar system and stellar astronomy to galactic and extragalactic astrophysics, and cosmology. Designed to provide students with a working knowledge of modern astrophysics, this textbook is suitable for astronomy and physics majors who have had a first-year introductory physics course with calculus. Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe; worked examples to facilitate the understanding of the concepts presented in the book; end-of-chapter problems to practice the skills acquired; and computational exercises to numerically model astronomical systems, the second edition of An Introduction to Modern Astrophysics is the go-to textbook for learning the core astrophysics curriculum as well as the many advances in the field.

Linear Algebra and Its Applications with R - Ruriko Yoshida 2021-06-23

The book developed from the need to teach a linear algebra course to students focused on data science and bioinformatics programs. These students tend not to realize the importance of linear algebra in applied sciences since traditional linear algebra courses tend to cover mathematical contexts but not the computational aspect of linear algebra or its applications to data science and bioinformatics. The author presents the topics in a traditional course yet offers lectures as well as lab exercises on simulated and empirical data sets. This textbook provides students a theoretical basis which can then be applied to the practical R and Python problems, providing the tools needed for real-world applications. Each section starts with working examples to demonstrate how tools from linear algebra can help solve problems in applied science. These exercises start from easy computations, such as computing determinants of matrices, to practical applications on simulated and empirical data sets with R so that students learn how to get started with R along with computational examples in each section and then they learn how to apply what they learn to problems in applied sciences. This book is designed from first principles to demonstrate the importance of linear algebra through working computational examples with R and python including tutorials on how to install R in the Appendix. If a student has never seen R, they can get started without any additional help. Since Python is one of the most popular languages in data science, optimization, and computer science, code supplements are available for students who feel more comfortable with Python. R is used primarily for

computational examples to develop student's practical computational skills. Table of Contents Preface List of Figures List of Tables 1. Systems of Linear Equations and Matrices 2. Matrix Arithmetic 3. Determinants 4. Vector Spaces 5. Inner Product Space 6. Eigen values and Eigen vectors 7. Linear Regression 8. Linear Programming Network Analysis Appendices A) Introduction to RStudio via Amazon Web Service (AWS) B) Introduction to R Bibliography Index Biography Dr. Ruriko Yoshida is an Associate Professor of Operations Research at the Naval Postgraduate School. She received her Ph.D. in Mathematics from the University of California, Davis. Her research topics cover a wide variety of areas: applications of algebraic combinatorics to statistical problems such as statistical learning on non-Euclidean spaces, sensor networks, phylogenetics, and phylogenomics. She teaches courses in statistics, stochastic models, probability, and data science.

The Fox and the Bowman - Sebastien de Castell 2021-10-14

Never cross a master of the bow . . . A young archer bent on revenge against the knight who impoverished his family encounters an enigmatic stranger who promises him a far more potent form of retribution. But when Thomas finds himself hurled by magic to fight battles in faraway lands, he soon discovers that the vengeance his mysterious benefactor offers could change not only one archer's destiny, but that of the entire world. A masterful short historical fantasy full of magic, archery, and intrigue by the author of the acclaimed Greatcoats and Spellslinger series.

Emergency Care for Children - Institute of Medicine 2007-05-08

Children represent a special challenge for emergency care providers, because they have unique medical needs in comparison to adults. For decades, policy makers and providers have recognized the special needs of children, but the system has been slow to develop an adequate response to their needs. This is in part due to inadequacies within the broader emergency care system. *Emergency Care for Children* examines the challenges associated with the provision of emergency services to children and families and evaluates progress since the publication of the Institute of Medicine report *Emergency Medical Services for Children* (1993), the first comprehensive look at pediatric emergency care in the United States. This new book offers an analysis of:

- The role of pediatric emergency services as an integrated component of the overall health system.
- System-wide pediatric emergency care planning, preparedness, coordination, and funding.
- Pediatric training in professional education.
- Research in pediatric emergency care.

Emergency Care for Children is one of three books in the *Future of Emergency Care* series. This book will be of particular interest to emergency health care providers, professional organizations, and policy makers looking to address the pediatric deficiencies within their emergency care systems.

Making College Work - Harry J. Holzer 2017-08-15

Practical solutions for improving higher education opportunities for disadvantaged students Too many disadvantaged college students in America do not complete their coursework or receive any college credential, while others earn degrees or certificates with little labor market value. Large numbers of these students also struggle to pay for college, and some incur debts that they have difficulty repaying. The authors provide a new review of the causes of these problems and offer promising policy solutions. The circumstances affecting disadvantaged students stem both from issues on the individual side, such as weak academic preparation and financial pressures, and from institutional failures. Low-income students disproportionately attend schools that are underfunded and have weak performance incentives, contributing to unsatisfactory outcomes for many students. Some solutions, including better financial aid or academic supports, target individual students. Other

solutions, such as stronger linkages between coursework and the labor market and more structured paths through the curriculum, are aimed at institutional reforms. All students, and particularly those from disadvantaged backgrounds, also need better and varied pathways both to college and directly to the job market, beginning in high school. We can improve college outcomes, but must also acknowledge that we must make hard choices and face difficult tradeoffs in the process. While no single policy is guaranteed to greatly improve college and career outcomes, implementing a number of evidence-based policies and programs together has the potential to improve these outcomes substantially.

Working with Contracts - Charles M. Fox 2002

Contract drafting is different from the other types of writing that a new lawyer is faced with. Law school contracts classes rarely consider the issues that arise in sophisticated commercial transactions. A new lawyer is therefore forced to learn by doing and observing -- in high-pressure 'on the job' training. Now there is help. *Working with Contracts: What Law School Doesn't Teach You* provides the beginning lawyer with an operative understanding of the vocabulary and the building blocks of contracts. It introduces the basic elements of all contracts; describes the lawyer's role in the drafting and negotiating process; discusses amendments, waivers, and consents; and addresses issues that arise in reviewing contracts, including due diligence issues. It also offers sample provisions, drafting checklists, and an expansive glossary of contract language and basic transactional practice.

A Calculus of Suffering - Martin S. Pernick 1985

Ultrasound Program Management - Vivek S. Tayal 2018-02-13

This book addresses the wide range of issues that face the program leader - from how to choose a site and how to negotiate for equipment, to how to determine staffing requirements and how to anticipate and defuse possible turf issues with other programs and services in the hospital or healthcare facility. The early chapters of this book focus on the leadership of your program whether in your department or institution. The second section centers on education at all levels recognizing that smaller machines have made ultrasound available for medical students to advanced practitioners. The third section provides detailed logistics on equipment, maintenance, and safety. The fourth section focuses on a quality improvement program and includes a chapter on the workflow process. For those with limited budgets we also offer a section on practical operating and educational solutions. The fifth section offers insight into hospital level credentialing, quality assurance, national politics, and recent issues with accreditation. This is followed by reimbursement and coding. The last section covers topics in specialized communities. Chapters focus on ultrasound in global health, emergency medical services, pediatrics, critical care, community and office based practices. Multiple US working documents including checklists, graphs, spreadsheets, tables, and policy appendices are included.

Disquisitiones Arithmeticae - Carl Friedrich Gauss 2018-02-07

Carl Friedrich Gauss's textbook, *Disquisitiones arithmeticae*, published in 1801 (Latin), remains to this day a true masterpiece of mathematical examination. .

Rays, Waves and Photons - William L. Wolfe 2015-08-03

Rays Waves and Photons is a history of the development of our knowledge of light and its many applications. For example, the development of telescopes is outlined from their first invention by Hans Lippershey, its improvement and use by Galileo all the way to the proposed James Webb telescope in space and the Giant Magellan one in the Andes. The history of infrared applications is covered from its discovery by William Herschel through its development in Germany until its use in, among other things, finding the Boston bomber. Some forty different subjects are described historically including optical design,

microscopes, cameras, spectacles, military, medical and fiber optics and lasers. Each has its own chapter and its own history.

A Guide to Advanced Linear Algebra - Steven H. Weintraub 2011-07-07

Linear algebra occupies a central place in modern mathematics. This book provides a rigorous and thorough development of linear algebra at an advanced level. It approaches linear algebra from an algebraic point of view, but its selection of topics is governed not only for their importance in linear algebra itself, but also for their applications throughout mathematics. Topics treated in this book include: vector spaces and linear transformations; dimension counting and applications; representation of linear transformations by matrices; duality; determinants and their uses; rational and especially Jordan canonical form; bilinear forms; inner product spaces; normal linear transformations and the spectral theorem; and an introduction to matrix groups as Lie groups. Students in algebra, analysis and topology will all find much of interest and use to them and the careful treatment and breadth of subject matter will make this book a valuable reference for mathematicians throughout their professional lives.

Dynamic Secrets in Communication Security - Sheng Xiao 2013-08-13

Dynamic secrets are constantly generated and updated from messages exchanged between two communication users. When dynamic secrets are used as a complement to existing secure communication systems, a stolen key or password can be quickly and automatically reverted to its secret status without disrupting communication. "Dynamic Secrets in Communication Security" presents unique security properties and application studies for this technology. Password theft and key theft no longer pose serious security threats when parties frequently use dynamic secrets. This book also illustrates that a dynamic secret based security scheme guarantees impersonation attacks are detected even if an adversary steals a user's password or their key is lost. Practitioners and researchers working in network security or wireless communications will find this book a must-have reference. "Dynamic Secrets in Communication Security" is also a valuable secondary text for advanced-level students in computer science and electrical engineering.

Strata Mechanics - I.W. Farmer 2013-10-22

The papers in this volume provide a unified approach to the design of underground structures in stratified coal and mineral deposits. They include examples of underground structure design in coal and evaporite mines, and case histories of performance of underground structures.

Data Structures Using C++ - D. S. Malik 2009-07-31

Now in its second edition, D.S. Malik brings his proven approach to C++ programming to the CS2 course. Clearly written with the student in mind, this text focuses on Data Structures and includes advanced topics in C++ such as Linked Lists and the Standard Template Library (STL). The text features abundant visual diagrams, examples, and extended Programming Examples, all of which serve to illuminate difficult concepts. Complete programming code and clear display of syntax, explanation, and example are used throughout the text, and each chapter concludes with a robust exercise set. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Calculus and Its Applications, Books a la Carte Edition - Larry J. Goldstein 2017-01-13

The New American Dilemma - Jennifer L. Hochschild 1984-01-01

A provocative examination of school desegregation in America and how it does—and does not—succeed. In this powerful tract on school desegregation, Jennifer Hochschild formulates the most searching challenge to the theory of

incrementalism that I have come across in recent years. -David Braybrooke A comprehensive synthesis of what is known about the processes of school desegregation and a powerful policy-oriented argument on a subject whose crucial significance Americans have been unable to wish away. -Paul E. Peterson, Brookings Institution A well-written, insightful survey and analysis of the pattern of school desegregation in American society since the Supreme Court's Brown decisions and a first-rate analysis of the implementation of public policy in the US, with perceptive remarks on incrementalism as a method of change.-Choice The New American Dilemma is policy analysis as it should be done, thorough in its consideration of evidence and bold in its examination of fundamental issues of political practice and social theory.-Clarence N.Stone, Ethics The New American Dilemma challenges almost all positions cherished by liberals and leftists, blacks and whites, including gradualism, democratic participation and ethnic solidarity. Because of that alone, The New American Dilemma is invaluable. -Richard H. King, Journal of American Studies A solid contribution to the literature on desegregation...This thought-provoking book provides an excellent perspective on the thirty years of desegregation since Brown. -Mary Jo Newborn, Michigan Law Review

Classroom Teaching Skills - James M. Cooper 2013-01-01

Designed for beginning teachers, CLASSROOM TEACHING SKILLS, Tenth Edition, conceptualizes the effective teacher as a reflective decision maker, responsible for planning, implementing, evaluating, and making management decisions in the classroom. Each chapter considers a particular teaching skill, first discussing the theory behind it, and then presenting the reader with practice situations in which knowledge about the skill can be applied and evaluated. The Tenth Edition continues to address the importance of core InTASC standards (matched with learning objectives for each chapter), while incorporating more extensive coverage on technology, Common Core State Standards, and working with English Language Learners. In addition, new Voices from the Classroom and Case Study features help readers better understand the issues they may encounter as teachers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Handbook on Innovations in Learning - Marilyn Murphy 2014

The Handbook on Innovations in Learning, developed by the Center on Innovations in Learning, presents commissioned chapters describing current best practices of instruction before embarking on descriptions of selected innovative practices which promise better methods of engaging and teaching students.

Cultural Algorithms - Robert G. Reynolds 2020-12-11

A thorough look at how societies can use cultural algorithms to understand human social evolution For those working in computational intelligence, developing an understanding of how cultural algorithms and social intelligence form the essential framework for the evolution of human social interaction is essential. This book, Cultural Algorithms: Tools to Model Complex Dynamic Social Systems, is the foundation of that study. It showcases how we can use cultural algorithms to organize social structures and develop socio-political systems that work. For such a vast topic, the text covers everything from the history of the development of cultural algorithms and the basic framework with which it was organized. Readers will also learn how other nature-inspired algorithms can be expressed and how to use social metrics to assess the performance of various algorithms. In addition to these topics, the book covers topics including: The CAT system including the Repast Symphony System and CAT Sample Runs How to problem solve using social networks in cultural algorithms with auctions Understanding Common Value Action to enhance Social Knowledge Distribution Systems Case studies on team formations An exploration of virtual

worlds using cultural algorithms For industry professionals or new students, Cultural Algorithms provides an impactful and thorough look at both social intelligence and how human social evolution translates into the modern world. Tailored Deterrence - Barry R. Schneider 2012

Kings of the Water - Mark Behr 2010

When Michiel Steyn returns to the family farmstead in South Africa for his mother's funeral, he has spent close to half his lifetime abroad. But even after 15 years' absence, neither Michiel nor those left behind have truly come to terms with his terrible flight from the farm they called Paradise.

An Introduction to Symplectic Geometry - Rolf Berndt 2001

Symplectic geometry is a central topic of current research in mathematics. Indeed, symplectic methods are key ingredients in the study of dynamical systems, differential equations, algebraic geometry, topology, mathematical physics and representations of Lie groups. This book is a true introduction to symplectic geometry, assuming only a general background in analysis and familiarity with linear algebra. It starts with the basics of the geometry of symplectic vector spaces. Then, symplectic manifolds are defined and explored. In addition to the essential classic results, such as Darboux's theorem, more recent results and ideas are also included here, such as symplectic capacity and pseudoholomorphic curves. These ideas have revolutionized the subject. The main examples of symplectic manifolds are given, including the cotangent bundle, Kähler manifolds, and coadjoint orbits. Further principal ideas are carefully examined, such as Hamiltonian vector fields, the Poisson bracket, and connections with contact manifolds. Berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book. In particular, the moment map is defined and explored, both mathematically and in its relation to physics. He also introduces symplectic reduction, which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old. The final chapter is on quantization, which uses symplectic methods to take classical mechanics to quantum mechanics. This section includes a discussion of the Heisenberg group and the Weil (or metaplectic) representation of the symplectic group. Several appendices provide background material on vector bundles, on cohomology, and on Lie groups and Lie algebras and their representations. Berndt's presentation of symplectic geometry is a clear and concise introduction to the major methods and applications of the subject, and requires only a minimum of prerequisites. This book would be an excellent text for a graduate course or as a source for anyone who wishes to learn about symplectic geometry.

Financial Valuation - James R. Hitchner 2017-04-19

A practically-focused resource for business valuation professionals Financial Valuation: Applications and Models provides authoritative reference and practical guidance on the appropriate, defensible way to prepare and present business valuations. With contributions by 30 top experts in the field, this new fourth edition provides an essential resource for those seeking the most up-to-date guidance, with a strong emphasis on applications and models. Coverage includes state-of-the-art methods for the valuation of closely-held businesses, nonpublic entities, intangible, and other assets, with comprehensive discussion on valuation theory, a consensus view on application, and the tools to make it happen. Packed with examples, checklists, and models to help you navigate your valuation project, this book also provides hundreds of expert "tips" and best practices in clear, easy-to-follow language. The companion website provides access to extensive appendix materials, and the perspectives of valuation thought-leaders add critical insight throughout each

step of the process. Valuation is an important part of any organization's overall financial strategy, and seemingly-small inaccuracies or incomplete assessments can have big repercussions. This book walks you through the valuation process to give you the skills and understanding you need to get it done right. Learn best practices from 30 field-leading experts Follow clear examples for complex or unfamiliar scenarios Access practical tools that streamline the valuation process Understand valuation models and real-world applications The business valuation process can become very complex very quickly, and there's no substitute for clear guidance and a delineated framework in the run-up to completion. Get organized from the beginning, and be systematic and methodical every step of the way. *Financial Valuation: Applications and Models* is the all-encompassing, expert guide to business valuation projects.

Race and Gender in Modern Western Warfare - David Ulbrich 2018-12-03

This book fills a gap in the historiographical and theoretical fields of race, gender, and war. In brief, *Race and Gender in Modern Western Warfare* (RGMWW) offers an introduction into how cultural constructions of identity are transformed by war and how they in turn influence the nature of military institutions and conflicts. Focusing on the modern West, this project begins by introducing the contours of race and gender theories as they have evolved and how they are employed by historians, anthropologists, sociologists, and other scholars. The project then mixes chronological narrative with analysis and historiography as it takes the reader through a series of case studies, ranging from the early nineteenth century to the Global War of Terror. The purpose throughout is not merely to create a list of so-called "great moments" in race and gender, but to create a meta-landscape in which readers can learn to identify for themselves the disjunctures, flaws, and critical synergies in the traditional memory and history of a largely monochrome and male-exclusive military experience. The final chapter considers the current challenges that Western societies, particularly the United States, face in imposing social diversity and tolerance on statist military structures in a climates of sometimes vitriolic public debate. RGMWW represents our effort to blend race, gender, and military war, to problematize these intersections, and then provide some answers to those problems.

Applied Social Psychology - Jamie A. Gruman 2016-09-08

This student-friendly introduction to the field focuses on understanding social and practical problems and developing intervention strategies to address them. Offering a balance of theory, research, and application, the updated Third Edition includes the latest research, as well as new, detailed examples of qualitative research throughout.

Microeconomics - Jeffrey M. Perloff 2013-01-22

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For all intermediate Microeconomics courses at the undergraduate or graduate level. This text is also suitable for readers interested in calculus-based intermediate microeconomics. Understand the practical, problem-solving aspects of microeconomic theory. *Microeconomics: Theory and Applications with Calculus* uses calculus, algebra, and graphs to present microeconomic theory using actual examples, and then encourages readers to apply the theory to analyze real-world problems. The Third Edition has been substantially revised, 80% of the Applications are new or updated, and there are 24 new Solved Problems. Every chapter (after Chapter 1) contains a new feature (the Challenge and the Challenge Solution) and has many new end-of-chapter exercises.

A Memory of Ice - Elizabeth Truswell 2019-08-01

In the southern summer of 1972/73, the *Glomar Challenger* was the first vessel

of the international Deep Sea Drilling Project to venture into the seas surrounding Antarctica, confronting severe weather and ever-present icebergs. A Memory of Ice presents the science and the excitement of that voyage in a manner readable for non-scientists. Woven into the modern story is the history of early explorers, scientists and navigators who had gone before into the Southern Ocean. The departure of the Glomar Challenger from Fremantle took place 100 years after the HMS Challenger weighed anchor from Portsmouth, England, at the start of its four-year voyage, sampling and dredging the world's oceans. Sailing south, the Glomar Challenger crossed the path of James Cook's HMS Resolution, then on its circumnavigation of Antarctica in search of the Great South Land. Encounters with Lieutenant Charles Wilkes of the US Exploring Expedition and Douglas Mawson of the Australasian Antarctic Expedition followed. In the Ross Sea, the voyages of the HMS Erebus and HMS Terror under James Clark Ross, with the young Joseph Hooker as botanist, were ever present. The story of the Glomar Challenger's iconic voyage is largely told through the diaries of the author, then a young scientist experiencing science at sea for the first time. It weaves together the physical history of Antarctica with how we have come to our current knowledge of the polar continent. This is an attractive, lavishly illustrated and curiosity-satisfying read for the general public as well as for scholars of science.

Integral, Measure and Derivative - G. E. Shilov 2013-05-13

This treatment examines the general theory of the integral, Lebesgue integral in n -space, the Riemann-Stieltjes integral, and more. "The exposition is fresh and sophisticated, and will engage the interest of accomplished mathematicians." - Sci-Tech Book News. 1966 edition.