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The Nature of Statistical Learning Theory-Vladimir N. Vapnik 2013-04-17 The aim of this book is to discuss the fundamental ideas which lie behind the statistical theory of learning and generalization. It considers learning from the general point of view of function estimation based on empirical data. Omitting proofs and technical details, the author concentrates on discussing the main results of learning theory and their connections to fundamental problems in statistics. These include: - the general setting of learning problems and the general model of minimizing the risk functional from empirical data - a comprehensive analysis of the empirical risk minimization principle and shows how this allows for the construction of necessary and sufficient conditions for consistency - non-asymptotic bounds for the risk achieved using the empirical risk minimization principle - principles for controlling the generalization ability of learning machines using small sample sizes - introducing a new type of universal learning machine that controls the generalization ability.
Fire Debris Analysis-Eric Stauffer 2007-12-10 The study of fire debris analysis is vital to the function of all fire investigations, and, as such, Fire Debris Analysis is an essential resource for fire investigators. The present methods of analysis include the use of gas chromatography and gas chromatography-mass spectrometry, techniques which are well established and used by crime laboratories throughout the world. However, despite their universality, this is the first comprehensive resource that addresses their application to fire debris analysis. Fire Debris Analysis covers topics such as the physics and chemistry of fire and liquid fuels, the interpretation of data obtained from fire debris, and the future of the subject. Its cutting-edge material and experienced author team distinguishes this book as a quality reference that should be on the shelves of all crime laboratories. Serves as a comprehensive guide to the science of fire debris analysis Presents both basic and advanced concepts in an easily readable, logical sequence Includes a full-color insert with figures that illustrate key concepts discussed in the text
Analytical Methods For Geochemical Exploration-J. C. Van Loon 2013-10-22 Written for the practicing analyst, Analytical Methods for Geochemical Exploration offers thoroughly tested chemical analysis methods for determining what base or precious metals are in geochemical exploration samples, such as rocks, soil, or sediment. Theory is kept to a minimum and complete procedures are provided so that no additional sources are needed to conduct analyses.
The Handbook of Infrared and Raman Spectra of Inorganic Compounds and Organic Salts: Infrared and Raman spectral atlas of inorganic compounds and organic salts. Raman spectra-Richard A. Nyquist 1997 This four-volume handbook presents unique data of infrared and Raman spectra that are extremely useful for the analysis of inorganic compounds and organic salts. The spectra charts as presented in the volumes may be used to facilitate spectra-structure identification of most compounds, while cross-indexing of data allows for easy comparison of infrared and Raman spectra of the same compound. This comprehensive four-volume set, based on the authors' extensive lifetime research, is an essential reference for industrial and academic researchers and their libraries. Analytical chemists, molecular spectroscopists, materials scientists (especially polymer scientists), chemical engineers, environmentalists, geologists, andothers involved in analyzing a wide range of inorganic compounds and organic salts will want to keep the Handbook within easy reach. This set is a"must"for pharmaceutical and chemical companies, as well as for industrial and academic libraries. Key Features * Four-Volume Set * Indices provide a guide to both infrared and Raman spectra * Includes unique IR and Raman spectral correlation charts * Contains indices of spectra by alphabetical order, chemical class, and chemical formula to facilitate ease of use * Cross-referenced to allow comparisons of the IR and Raman spectra of the same compound * 19 pages of figures; 46 pages of tables * 92 pages of Raman spectral charts; 481 pages of infrared spectral charts.
Science Education and Student Diversity-Okhee Lee 2006-06-26 The achievement gaps in science and the under-representation of minorities in science-related fields have long been a concern of the nation. This book examines the roots of this problem by providing a comprehensive, 'state of the field' analysis and synthesis of current research on science education for minority students. Research from a range of theoretical and methodological perspectives is brought to bear on the question of how and why our nation's schools have failed to provide equitable learning opportunities with all students in science education. From this wealth of investigative data, the authors propose a research agenda for the field of science education - identifying strengths and weaknesses in the literature to date as well as the most urgent priorities for those committed to the goals of equity and excellence in science education.
Diversity and Equity in Science Education-Okhee Lee 2010-04-30 Two leading science educators provide a comprehensive, state-of-the-field analysis of current trends in the research, policy, and practice of science education. This book offers valuable insights into why gaps in science achievement among racial, ethnic, cultural, linguistic, and socioeconomic groups persist, and points toward practical means of narrowing or eliminating these gaps. Lee and Buxton examine instructional practices, science–curriculum materials (including computer technology), assessment, teacher education, school organization, federal and state policies, and home-school connections. Book features: A synthesis of the emerging body of research in the field of science education and its application to practice and policy. A description of effective practices for narrowing science achievement gaps among demographic subgroups of students. A focus on the unique learning needs of English language learners. An analysis of major science education initiatives, interventions, and programs that have been successful with nonmainstream students.
Secret Identity Crisis-Matthew J. Costello 2009-03-01 What Cold War-era superheroes reveal about American society and foreign policy Physicist Bruce Banner, caught in the nuclear explosion of his experimental gamma bomb, is transformed into the rampaging green monster, the Hulk. High school student Peter Parker, bitten by an irradiated spider, gains its powers and becomes Spiderman. Reed Richards and his friends are caught in a belt of cosmic radiation while orbiting the Earth in a spacecraft and are transformed into the Fantastic Four. While Stan Lee suggests he clung to the hackneyed idea of radioactivity in creating Marvel's stable of superheroes because of his limited imagination, radiation and the bomb are nonetheless the big bang that spawned the Marvel universe. The Marvel superheroes that came to dominate the comic book industry for most of the last five decades were born under the mushroom cloud of potential nuclear war that was a cornerstone of the four-decade bipolar division of the world between the US and USSR. These stories were consciously set in this world and reflect the changing culture of cold War (and post-cold War) America. Like other forms of popular entertainment, comic books tend to be very receptive to cultural trends, reflect them, comment on them, and sometimes inaugurate them. Secret Identity Crisis follows the trajectory of the breakdown of the cold War consensus after 1960 through the lens of superhero comic books. Those developed by Marvel, because of their conscious setting in the contemporary world, and because of attempts to maintain a continuous story line across and within books, constitute a system of signs that reflect, comment upon, and interact with the American political economy. This groundbreaking new study focuses on a handful of titles and signs that specifically involve political economic codes, including Captain America, the Invincible Iron Man, Nick Fury, Agent of SHIELD, the Incredible Hulk to reveal how the American self was transformed and/or reproduced during the late Cold War and after.
Super Graphic-Tim Leong 2013-09-24 The comic book universe is adventurous, mystifying, and filled with heroes, villains, and cosplaying Comic-Con attendees. This book by one of Wired magazine's art directors traverses the graphic world through a collection of pie charts, bar graphs, timelines, scatter plots, and more. Super Graphic offers readers a unique look at the intricate and sometimes contradictory storylines that weave their way through comic books, and shares advice for navigating the pages of some of the most popular, longest-running, and best-loved comics and graphic novels out there. From a colorful breakdown of the DC Comics reader demographic to a witty Venn diagram of superhero comic tropes and a Chris Ware sadness scale, this book charts the most arbitrary and monumental characters, moments, and equipment of the wide world of comics. Plus, this is the fixed format version, which includes high-resolution images.

Empirical Inference-Bernhard Schölkopf 2013-12-11 This book honours the outstanding contributions of Vladimir Vapnik, a rare example of a scientist for whom the following statements hold true simultaneously: his work led to the inception of a new field of research, the theory of statistical learning and empirical inference; he has lived to see the field blossom; and he is still as active as ever. He started analyzing learning algorithms in the 1960s and he invented the first version of the generalized portrait algorithm. He later developed one of the most successful methods in machine learning, the support vector machine (SVM) – more than just an algorithm, this was a new approach to learning problems, pioneering the use of functional analysis and convex optimization in machine learning. Part I of this book contains three chapters describing and witnessing some of Vladimir Vapnik's contributions to science. In the first chapter, Léon Bottou discusses the seminal paper published in 1968 by Vapnik and Chervonenkis that lay the foundations of statistical learning theory, and the second chapter is an English-language translation of that original paper. In the third chapter, Alexey Chervonenkis presents a first-hand account of the early history of SVMs and valuable insights into the first steps in the development of the SVM in the framework of the generalised portrait method. The remaining chapters, by leading scientists in domains such as statistics, theoretical computer science, and mathematics, address substantial topics in the theory and practice of statistical learning theory, including SVMs and other kernel-based methods, boosting, PAC-Bayesian theory, online and transductive learning, loss functions, learnable function classes, notions of complexity for function classes, multitask learning, and hypothesis selection. These contributions include historical and context notes, short surveys, and comments on future research directions. This book will be of interest to researchers, engineers, and graduate students engaged with all aspects of statistical learning.

Gender, Family and Economy-Rae Lesser Blumberg 1991 The 'triple overlap' refers to the link between gender stratification, the household and economic variables. In this volume, leading sociologists examine this overlap as a totality, providing theoretical concepts and new research on how the triple overlap works, both inside the family and within the broader context of society. Their competing conceptions of the interrelationship of gender, family and economy are bolstered by empirical papers which raise questions of culture, class and race within the contexts of both the developed and developing worlds. Six of the articles in this volume were previously published as a Special Issue of Journal of Family Issues.

Medieval Bruges-Andrew Brown 2018-04-30 Bruges was undoubtedly one of the most important cities in medieval Europe. Bringing together specialists from both archaeology and history, this 'total' history presents an integrated view of the city's history from its very beginnings, tracing its astonishing expansion through to its subsequent decline in the sixteenth century. The authors' analysis of its commercial growth, industrial production, socio-political changes, and cultural creativity is grounded in an understanding of the city's structure, its landscape and its built environment. More than just a biography of a city, this book places Bruges within a wider network of urban and rural development and its history in a comparative framework, thereby offering new insights into the nature of a metropolis.

Handbook of Mathematics for Engineers and Scientists-Andrei D. Polyanin 2006-11-27 The Handbook of Mathematics for Engineers and Scientists covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

Event-Based State Estimation-Dawei Shi 2015-11-19 This book explores event-based estimation problems. It shows how several stochastic approaches are developed to maintain estimation performance when sensors perform their updates at slower rates only when needed. The self-contained presentation makes this book suitable for readers with no more than a basic knowledge of probability analysis, matrix algebra and linear systems. The introduction and literature review provide information, while the main content deals with estimation problems from four distinct angles in a stochastic setting, using numerous illustrative examples and comparisons. The text elucidates both theoretical developments and their applications, and is rounded out by a review of open problems. This book is a valuable resource for researchers and students who wish to expand their knowledge and work in the area of event-triggered systems. At the same time, engineers and practitioners in industrial process control will benefit from the event-triggering technique that reduces communication costs and improves energy efficiency in wireless automation applications.

The Final Bid-Michelle Windsor 2017-04-07 It's been two long months since Hannah walked away from Drew. It's just as well, because her dreams-homeownership, her own business, and a comfortable life with her daughter-just don't have room for a billionaire Dom . . . dreams that are haunted every night by memories of Drew's touch, his kiss, and his insatiable hunger. Tormented by his emotions and reeling from a shocking discovery, Drew is more determined than ever to uncover all of Hannah's secrets. She doesn't know it yet, but he's been watching and waiting for just the right moment to confront her. This time, he'll be the one in control, and he'll finally know why she walked away from the most passionate weekend of his life. The first time they met, Drew paid thousands for a weekend with Hannah. This time, he'll bid his heart for a chance at forever.

The Little Fir Tree-Margaret Wise Brown 2005-09-27 They put golden tinsel on his branches And golden bells And green icicles And silver stars And red and green and blue and purple chains of shining Christmas balls. All alone in an empty field grew a little fir tree. It dreamed of being part of a forest-or part of anything at all. Then one winter day, a man takes the little fir tree away and it finds itself at the center of a little boy's very special celebration. This treasured story by the legendary Margaret Wise Brown has been newly illustrated by award-winning artist Jim LaMarche. Warm, glowing paintings complement the gentle text to capture the true heart of Christmas.

Tidal Rip-Joe Buff 2009-10-13 An electrifying new voice in military fiction, Joe Buff has written a riveting and utterly realistic submarine adventure. Jeffrey Fuller is going back to war. Commander Fuller has distinguished himself in battle, becoming one of America's most inspirational heroes in its war with the Berlin-Boer Axis. Time and time again, Fuller has taken his crew of elite submariners into the most dangerous waters in the world, matching wits and weapons with the best of Germany's and South Africa's fighting force, and every time he has emerged the victor. But this time, Fuller is given an impossible mission. As the captain of America's most technologically advanced tactical nuclear submarine, Fuller is told that the Allies will lose the war unless two conditions are met. The only problem: if Fuller devotes his time to achieving one of his goals, he will sacrifice the other. With the war hanging in the balance, Fuller must accomplish the impossible, or he will lose not only his life, but the war itself.

Industrial Chemistry- 1991

Cultures of Comics Work-Casey Brienza 2016-12-05 This anthology explores tensions between the individualistic artistic ideals and the collective industrial realities of contemporary cultural production with eighteen all-new chapters presenting pioneering empirical research on the complexities and controversies of comics work. Art Spiegelman. Alan Moore. Osamu Tezuka. Neil Gaiman. Names such as these have become synonymous with the medium of comics. Meanwhile, the large numbers of people without whose collective action no comic book would ever exist in the first place are routinely overlooked. Cultures of Comics Work unveils this hidden, global industrial labor of writers, illustrators, graphic designers, letterers, editors, printers, typesetters, publicists, publishers, distributors, translators, retailers, and countless others both directly and indirectly involved in the creative production of what is commonly thought of as the comic book. Drawing upon diverse theoretical and methodological perspectives, an international and interdisciplinary cohort of cutting-edge researchers and practitioners intervenes in debates about cultural work and paves innovative directions for comics scholarship.

Biometric-Based Physical and Cybersecurity Systems-Mohammad S. Obaidat 2018-10-24 This book presents the latest developments in biometrics technologies and reports on new approaches, methods, findings, and technologies developed or being developed by the research community and the industry. The book focuses on introducing fundamental principles and concepts of key enabling technologies for biometric systems applied for both physical and cyber security. The authors disseminate recent research and developing efforts in this area, investigate related trends and challenges, and present case studies and examples such as fingerprint, face, iris, retina, keystroke dynamics, and voice applications . The authors also investigate the advances and future outcomes in research and development in biometric security systems. The book is applicable to students, instructors, researchers, industry practitioners, and related government agencies staff. Each chapter is accompanied by a set of PowerPoint slides for use by instructors.

Fire Investigation-Niamh Nic Daeid 2004-01-27 Fire Investigation covers the concepts and theories used to determine a specfic fire has been deliberately or accidentally set. The author clearly explains the concepts needed to gain insight into a fire scene investigation, including the dynamics of the fire, the necessary conditions for a fire to start and be maintained, the different types of co

Even Little Sparrows!-R. J. Adams 2004-01-01 A unique presentation of the source of Hindu Icons as representation of scientific elements in Physics, chemistry, mathematics etc, In this fascinating treatise Swami Ram Charran shows how Hindu Gods are really the periodic Table of elements that keeps all of us alive. He shows how Einstein derived his famous equation E=MC2 from the Hindu texts, how Newton knew about the colors of the Sun from the Hindu God

Surya, and how the 9 forms of electro-magnetic energy since creation was known as the 9 forms of Laxmi, the hindu goddess of Light This book will leave you with the knowledge that Air, Water, Light, space, fire, the solar system etc. are all the elements of God that gives each one of us a godly power within, identified as a unique fingerprint that is different from all others on earth. After reading the book, the knowledge aquired will help you understand your own life, your purpose for living, who are you really and why were you born. Swami explains how the Hindu Icons can be used to pinpoint major karmic changes in your own life.....

The Emerald Horizon-Cornelia F. Mutel 2008-03-01 In The Emerald Horizon, Cornelia Mutel combines lyrical writing with meticulous scientific research to portray the environmental past, present, and future of Iowa. In doing so, she ties all of Iowa's natural features into one comprehensive whole. Since so much of the tallgrass state has been transformed into an agricultural landscape, Mutel focuses on understanding today's natural environment by understanding yesterday's changes. After summarizing the geological, archaeological, and ecological features that shaped Iowa's modern landscape, she recreates the once-wild native communities that existed prior to Euroamerican settlement. Next she examines the dramatic changes that overtook native plant and animal communities as Iowa's prairies, woodlands, and wetlands were transformed. Finally she presents realistic techniques for restoring native species and ecological processes as well as a broad variety of ways in which Iowans can reconnect with the natural world. Throughout, in addition to the many illustrations commissioned for this book, she offers careful scientific exposition, a strong sense of respect for the land, and encouragement to protect the future by learning from the past. The "emerald prairie" that "gleamed and shone to the horizon's edge," as botanist Thomas Macbride described it in 1895, has vanished. Cornelia Mutel's passionate dedication to restoring this damaged landscape—and by extension the transformed landscape of the entire Corn Belt—invigorates her blend of natural history and human history. Believing that citizens who are knowledgeable about native species, communities, and ecological processes will better care for them, she gives us hope—and sound suggestions—for the future.

Event-Based Control and Signal Processing-Marek Miskowicz 2018-09-03 Event-based systems are a class of reactive systems deployed in a wide spectrum of engineering disciplines including control, communication, signal processing, and electronic instrumentation. Activities in event-based systems are triggered in response to events usually representing a significant change of the state of controlled or monitored physical variables. Event-based systems adopt a model of calls for resources only if it is necessary, and therefore, they are characterized by efficient utilization of communication bandwidth, computation capability, and energy budget. Currently, the economical use of constrained technical resources is a critical issue in various application domains because many systems become increasingly networked, wireless, and spatially distributed. Event-Based Control and Signal Processing examines the event-based paradigm in control, communication, and signal processing, with a focus on implementation in networked sensor and control systems. Featuring 23 chapters contributed by more than 60 leading researchers from around the world, this book covers: Methods of analysis and design of event-based control and signal processing Event-driven control and optimization of hybrid systems Decentralized event-triggered control Periodic event-triggered control Model-based event-triggered control and event-triggered generalized predictive control Event-based intermittent control in man and machine Event-based PID controllers Event-based state estimation Self-triggered and team-triggered control Event-triggered and time-triggered real-time architectures for embedded systems Event-based continuous-time signal acquisition and DSP Statistical event-based signal processing in distributed detection and estimation Asynchronous spike event coding technique with address event representation Event-based processing of non-stationary signals Event-based digital (FIR and IIR) filters Event-based local bandwidth estimation and signal reconstruction Event-Based Control and Signal Processing is the first extensive study on both event-based control and event-based signal processing, presenting scientific contributions at the cutting edge of modern science and engineering.

Your Students, My Students, Our Students-Lee Ann Jung 2019-09-25 Your Students, My Students, Our Students explores the hard truths of current special education practice and outlines five essential disruptions to the status quo. Authors Lee Ann Jung, Nancy Frey, Douglas Fisher, and Julie Kroener show you how to - Establish a school culture that champions equity and inclusion. - Rethink the long-standing structure of least restrictive environment and the resulting service delivery. - Leverage the strengths of all educators to provide appropriate support and challenge. - Collaborate on the delivery of instruction and intervention. - Honor the aspirations of each student and plan accordingly. To realize authentic and equitable inclusion, we must relentlessly and collectively pursue change. This book—written not for "special educators" or "general educators" but for all educators—addresses the challenges, maps out the solutions, and provides tools and inspiration for the work ahead. Real-life examples of empowerment and success illustrate just what's possible when educators commit to the belief that every student belongs to all of us and all students deserve learning experiences that will equip them to live full and rewarding lives.

Biomechanics of Anthropomorphic Systems-Gentiane Venture 2018-08-01 Mechanical laws of motion were applied very early for better understanding Anthropomorphic action as suggested in advance by Newton «For from hence are easily deduced the forces of machines, which are compounded of wheels, pullies, levers, cords, and weights, ascending directly or obliquely, and other mechanical powers; as also the force of the tendons to move the bones of animals». In the 19th century E.J. Marey and E. Muybridge introduced chronophotography to scientifically investigate animal and human movements. They opened the field of motion analysis by being the first scientists to correlate ground reaction forces with kinetics. Despite of the apparent simplicity of a given skilled movement, the organization of the underlying neuro-musculo-skeletal system remains unknown. A reason is the redundancy of the motor system: a given action can be realized by different muscle and joint activity patterns, and the same underlying activity may give rise to several movements. After the pioneering work of N. Bernstein in the 60's on the existence of motor synergies, numerous researchers «walking on the border» of their disciplines tend to discover laws and principles underlying the human motions and how the brain reduces the redundancy of the system. These synergies represent the fundamental building blocks composing complex movements. In robotics, researchers face the same redundancy and complexity challenges as the researchers in life sciences. This book gathers works of roboticists and researchers in biomechanics in order to promote an interdisciplinary research on anthropomorphic systems at large and on humanoid robotics in particular.

The Forensic Laboratory Handbook Procedures and Practice-Ashraf Mozayani 2010-12-14 Forensic science has come a long way in the past ten years. It is much more in-depth and much broader in scope, and the information gleaned from any evidence yields so much more information than it had in the past because of incredible advances in analytic instruments and crucial procedures at both the crime scene and in the lab. Many practices have gone digital, a concept not even fathomed ten years ago. And from the first collection of evidence to its lab analysis and interpretation to its final presentation in court, ethics has become an overriding guiding principle. That's why this new edition of this classic handbook is indispensable. The Forensic Laboratory Handbook Procedures and Practice includes thirteen new chapters written by real-life practitioners who are experts in the field. It covers the tried and true topics of fingerprints, trace evidence, chemistry, biology, explosives and arson, forensic anthropology, forensic pathology, forensic documents, firearms and toolmarks. This text also addresses an array of new topics including accreditation, certification, ethics, and how insects and bugs can assist in determining many facts including a margin of time of death. In the attempt to offer a complete and comprehensive analysis The Forensic Laboratory Handbook Procedures and Practice also includes a chapter discussing the design of a laboratory. In addition, each chapter contains educational requirements needed for the discipline it covers. Complete with questions at the end of each chapter, brief author bios and real crime scene photos, this text has risen to greet the many new challenges and issues that face today's forensic crime practitioners.

Neural Approaches to Conversational AI: Question Answering, Task-Oriented Dialogues and Social Chatbots-Jianfeng Gao 2019-02-21 This monograph is the first survey of neural approaches to conversational AI that targets Natural Language Processing and Information Retrieval audiences. It provides a comprehensive survey of the neural approaches to conversational AI that have been developed in the last few years, covering QA, task-oriented and social bots with a unified view of optimal decision making.The authors draw connections between modern neural approaches and traditional approaches, allowing readers to better understand why and how the research has evolved and to shed light on how they can move forward. They also present state-of-the-art approaches to training dialogue agents using both supervised and reinforcement learning. Finally, the authors sketch out the landscape of conversational systems developed in the research community and released in industry, demonstrating via case studies the progress that has been made and the challenges that are still being faced.Neural Approaches to Conversational AI is a valuable resource for students, researchers, and software developers. It provides a unified view, as well as a detailed presentation of the important ideas and insights needed to understand and create modern dialogue agents that will be instrumental to making world knowledge and services accessible to millions of users in ways that seem natural and intuitive.

Graphic Storytelling-Will Eisner 1996 Examines the fundamentals of storytelling in comic book style and offers advice on story construction and visual narratives.

RetroFan #7-Michael Eury 2019-12-04 RetroFan #7 features a Jaclyn Smith interview, reopens the Charlie's Angels Casebook, and visits the Guinness World Records' largest Charlie's Angels collection. Plus: an exclusive interview with funnyman LARRY STORCH, Captain Action—the original super-hero action figure, The Dick Van Dyke Show, a vintage interview with Jonny Quest creator DOUG WILDEY, a visit to the Land of Oz, the ultra-rare Marvel World superhero playset, and more fun, fab features! Featuring columns by Ernest Farino, Will Murray, Scott Saavedra, and Scott Shaw! Edited by Back Issue magazine's Michael Eury.

Verification and Control of Hybrid Systems-Paulo Tabuada 2009-06-12 Hybrid systems describe the interaction of software, described by finite models such as finite-state machines, with the physical world, described by infinite models such as differential equations. This book addresses problems of verification and controller synthesis for hybrid systems. Although these problems are very difficult to solve for general hybrid systems, several authors have identified

classes of hybrid systems that admit symbolic or finite models. The novelty of the book lies on the systematic presentation of these classes of hybrid systems along with the relationships between the hybrid systems and the corresponding symbolic models. To show how the existence of symbolic models can be used for verification and controller synthesis, the book also outlines several key results for the verification and controller design of finite systems. Several examples illustrate the different methods and techniques discussed in the book.

Differential Equations-Paul Blanchard 2012-07-25 Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Science Puzzlers, Twisters and Teasers-Holt Rinehart & Winston 2004

Distributed Autonomous Robotic Systems-Nikolaus Correll 2019-01-30 This volume of the SPAR series brings the proceedings of the fourteen edition of the DARS symposium on Distributed Autonomous Robotic Systems, whose proceedings have been published within SPAR since the past edition. This symposium took place in Boulder, CO from October 15th to 17th, 2018. The volume edited by Nikolaus Correll and Mac Schwager contains 36 scientific contributions cutting across planning, control, design, perception, networking, and optimization, all united through the common thread of distributed robotic systems.

Learning by Doing-Richard DuFour 2013-06-15 Like the first edition, the second edition of Learning by Doing: A Handbook for Professional Learning Communities at Work helps educators close the knowing-doing gap as they transform their schools into professional learning communities (PLCs).

Approaches and Applications of Inductive Programming-Ute Schmid 2010-03-25 This book constitutes revised papers of the Third International Workshop on approaches and Applications of Inductive Programming, AAIP 2009, held in Edinburgh, UK, in September 2009. The 7 full papers included in this volume were carefully reviewed and selected. The book also contains two invited papers.

Semi-supervised Learning-Olivier Chapelle 2010 In the field of machine learning, semi-supervised learning (SSL) occupies the middleground, between supervised learning (in which all training examples are labeled) and unsupervisedlearning (in which no label data are given). Interest in SSL has increased in recent years,particularly because of application domains in which unlabeled data are plentiful, such as images,text, and bioinformatics. This first comprehensive overview of SSL presents state-of-the-artalgorithms, a taxonomy of the field, selected applications, benchmark experiments, and perspectiveson ongoing and future research.Semi-Supervised Learning first presents the key assumptions and ideasunderlying the field: smoothness, cluster or low-density separation, manifold structure, andtransduction. The core of the book is the presentation of SSL methods, organized according toalgorithmic strategies. After an examination of generative models, the book describes algorithmsthat implement the low-density separation assumption, graph-based methods, and algorithms thatperform two-step learning. The book then discusses SSL applications and offers guidelines for SSLpractitioners by analyzing the results of extensive benchmark experiments. Finally, the book looksat interesting directions for SSL research. The book closes with a discussion of the relationshipbetween semi-supervised learning and transduction.Olivier Chapelle and Alexander Zien are ResearchScientists and Bernhard Schölkopf is Professor and Director at the Max Planck Institute forBiological Cybernetics in Tübingen. Schölkopf is coauthor of Learning with Kernels (MIT Press, 2002)and is a coeditor of Advances in Kernel Methods: Support Vector Learning (1998), Advances inLarge-Margin Classifiers (2000), and Kernel Methods in Computational Biology (2004), all publishedby The MIT Press.

RAMSETE-Salvatore Nicosia 2003-07-01 Robotics applications, initially developed for industrial and manufacturing contexts, are now strongly present in several elds. Besides well-known space and high-technology applications, robotics for every day life and medical s- vices is becoming more and more popular. As an example, robotic manipu- tors are particularly useful in surgery and radiation treatments, they could be employed for civil demining, for helping disabled people, and ultimately for domestic tasks, entertainment and education. Such a kind of robotic app- cations require the integration of many di erent skills. Autonomous vehicles and mobile robots in general must be integrated with articulated manipu- tors. Many robotic technologies (sensors, actuators and computing systems) must be properly used with speci c technologies (localisation, planning and control technologies). The task of designing robots for these applications is a hard challenge: a speci c competence in each area is demanded, in the e ort of a truly integrated multidisciplinary design.

Handbook of Mathematics-I.N. Bronshtein 2007-08-15 This incredibly useful guide book to mathematics contains the fundamental working knowledge of mathematics which is needed as an everyday guide for working scientists and engineers, as well as for students. Now in its fifth updated edition, it is easy to understand, and convenient to use. Inside you'll find the information necessary to evaluate most problems which occur in concrete applications. In the newer editions emphasis was laid on those fields of mathematics that became more important for the formulation and modeling of technical and natural processes. For the 5th edition, the chapters "Computer Algebra Systems" and "Dynamical Systems and Chaos" have been revised, updated and expanded.

Networked Control Systems-Alberto Bemporad 2010-10-14 This book nds its origin in the WIDE PhD School on Networked Control Systems, which we organized in July 2009 in Siena, Italy. Having gathered experts on all the aspects of networked control systems, it was a small step to go from the summer school to the book, certainly given the enthusiasm of the lecturers at the school. We felt that a book collecting overviewson the important developmentsand open pr- lems in the eld of networked control systems could stimulate and support future research in this appealing area. Given the tremendouscurrentinterests in distributed control exploiting wired and wireless communication networks, the time seemed to be right for the book that lies now in front of you. The goal of the book is to set out the core techniques and tools that are ava- able for the modeling, analysis and design of networked control systems. Roughly speaking, the book consists of three parts. The rst part presents architectures for distributed control systems and models of wired and wireless communication n- works. In particular, in the rst chapter important technological and architectural aspects on distributed control systems are discussed. The second chapter provides insight in the behavior of communication channels in terms of delays, packet loss and information constraints leading to suitable modeling paradigms for commu- cation networks.

Bane and Shadow-Jon Skovron 2017-02-28 A killer adventure fantasy follow-up to HOPE AND RED, set in a fracturing empire spread across savage seas, where two young people from different cultures find common purpose. Red is being trained as a cold-blooded assassin by the biomancers. As he becomes increasingly embroiled in palace politics, he learns that even life among the nobility can be deadly. While terrorizing imperial ships as the pirate Dire Bane, Hope stumbles onto a biomancer plot of such horrifying scope that it makes even the massacre of her childhood village seem small in comparison. With the biomancers tightening their grip of fear over the empire, Hope and Red struggle to fill their new roles and responsibilities, but the cost will be greater than any of them realize. The Empire of Storms seriesHope and RedBane and Shadow

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