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Springer-Verlag: History of a Scientific Publishing House Homotopical Algebra *N=2 Supersymmetric Dynamics for Pedestrians* **Quantum Physics** Formal Methods Dance Notations and Robot Motion **Logic, Language, Information, and Computation** Theory of Vector Optimization **GSN - The Goal Structuring Notation** *Seminar on Algebraic Groups and Related Finite Groups* **Simple Singularities and Simple Algebraic Groups A Mathematical Introduction to Conformal Field Theory** *Geometric Science of Information Weekly Notes of Cases Argued and Determined in the Supreme Court of Pennsylvania, the County Courts of Philadelphia, and the United States District and Circuit Courts for the Eastern District of Pennsylvania* **The Atiyah-Singer Index Theorem** *Branching Random Walks* **Large-Scale Scientific Computing** *Mission to Saturn Inventive Computation Technologies* **Ample Subvarieties of Algebraic Varieties** *Glaciers and Ice Sheets in the Climate System Pervasive Computing Fundamental Approaches to Software Engineering* **Frank Springer and New Mexico** *Advances in Home Care Technologies* **Field Notes** *Robotics, Vision and Control* Regression Modeling Strategies *Maida Springer* **Digital Technologies and Applications** Differential Equations **Tattooed Bodies I Just Wanna Stay Home & Hang Out with My English Springer Spaniel** Determinantal Rings Spectral Analysis for Physical Applications *Trees* Proceedings of International Conference on Advances in Tribology and Engineering Systems **Wide Ruled Composition Book** Special Publication *Smart Homes and Their Users*

A Mathematical Introduction to Conformal Field Theory Nov 20
2021 Part I gives a detailed, self-contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions. The conformal groups are determined and the appearence of the Virasoro algebra in the context of the quantization of two-dimensional conformal symmetry is explained via the classification of central extensions of Lie algebras and groups. Part II surveys more advanced topics of conformal field theory such as the representation theory of the Virasoro algebra, conformal symmetry within string theory, an axiomatic approach to Euclidean conformally covariant quantum field theory and a mathematical interpretation of the Verlinde formula in the context of moduli spaces of holomorphic vector bundles on a Riemann surface.

Formal Methods Jun 27 2022 This book constitutes the refereed proceedings of the 24th Symposium on Formal Methods, FM 2021, held virtually in November 2021. The 43 full papers presented together with 4 invited presentations were carefully reviewed and selected from 131 submissions. The papers are organized in topical sections named: Invited Presentations. - Interactive Theorem Proving, Neural Networks & Active Learning, Logics & Theory, Program Verification I, Hybrid Systems, Program Verification II, Automata, Analysis of Complex Systems, Probabilities, Industry Track Invited Papers, Industry Track, Divide et Impera: Efficient Synthesis of Cyber-Physical System.

Spectral Analysis for Physical Applications Nov 28 2019 This book is an up-to-date introduction to univariate spectral analysis at the graduate level, which reflects a new scientific awareness of spectral complexity, as well as the widespread use of spectral analysis on digital computers with considerable computational power. The text provides theoretical and computational guidance on the available techniques, emphasizing those that work in practice. Spectral analysis finds extensive application in the analysis of data arising in many of the physical sciences, ranging from electrical engineering and physics to geophysics and oceanography. A valuable feature of the text is that many examples are given showing the application of spectral analysis to real data sets. Special emphasis is placed on the multitaper technique, because of its practical success in handling spectra with intricate structure, and its power to handle data with or without spectral lines. The text contains a large number of exercises, together with an extensive bibliography.

Smart Homes and Their Users Jun 23 2019 Smart home technologies promise to transform domestic comfort, convenience, security and leisure while also reducing energy use. But delivering on these potentially conflicting promises depends on how they are adopted and used in homes. This book starts by developing a new analytical framework for understanding smart homes and their users. Drawing on a range of new empirical research combining both qualitative and quantitative data, the book then explores how smart home technologies are perceived by potential users, how they can be used to link domestic energy use to common daily activities, how they may (or may not) be integrated into everyday life by actual users, and how they serve to change the nature of control within households and the home. The book concludes by synthesising a range of evidence-based insights, and posing a series of challenges for industry, policy, and research that need addressing if a smart home future is to be realised. Researchers will find this book provides useful insights into this fast-growing field

Weekly Notes of Cases Argued and Determined in the Supreme Court of Pennsylvania, the County Courts of Philadelphia, and the United States

District and Circuit Courts for the Eastern District of Pennsylvania Sep 18 2021

Geometric Science of Information Oct 20 2021 This book constitutes the proceedings of the 5th International Conference on Geometric Science of Information, GSI 2021, held in Paris, France, in July 2021. The 98 papers presented in this volume were carefully reviewed and selected from 125 submissions. They cover all the main topics and highlights in the domain of geometric science of information, including information geometry manifolds of structured data/information and their advanced applications. The papers are organized in the following topics: Probability and statistics on Riemannian Manifolds; sub-Riemannian geometry and neuromathematics; shapes spaces; geometry of quantum states; geometric and structure preserving discretizations; information geometry in physics; Lie group machine learning; geometric and symplectic methods for hydrodynamical models; harmonic analysis on Lie groups; statistical manifold and Hessian information geometry; geometric mechanics; deformed entropy, cross-entropy, and relative entropy; transformation information geometry; statistics, information and topology; geometric deep learning; topological and geometrical structures in neurosciences; computational information geometry; manifold and optimization; divergence statistics; optimal transport and learning; and geometric structures in thermodynamics and statistical physics.

GSN - The Goal Structuring Notation Feb 21 2022 Goal Structuring Notation (GSN) is becoming increasing popular; practitioners use it in the railway, air traffic management and nuclear industries, amongst others. Originally developed to present safety assurance arguments, GSN need not be restricted to safety assurances only; in principle, you can use it to present (and test) any argument. Anyone wishing to support, or refute, a claim can use GSN. Written by an experienced practitioner, The Goal Structuring Notation is both for those who wish to prepare and present compelling arguments using the notation, and for those who wish to review such arguments critically and effectively. To emphasise the versatility of this approach The Goal Structuring Notation presents examples and questions based on diverse subject areas including Business Management, Drama, Engineering, Politics and Astrobiology. Simple examples introduce each symbol of the notation before introducing more complex structures which illustrate how the symbols work together in practical scenarios. To aid learning, questions and problems augment the text, so that the reader may reflect upon and try out the new concepts and principles presented. As a comprehensive instruction in the basics of GSN and it's application, The Goal Structuring Notation also serves as a references or manual for the practitioner to dip into as problems are encountered or as a key resource for engineers working in those industries which require a clear description of the notation, covering the initial principles and showing why each piece of the notation is necessary. Originally developed to present safety assurance arguments, GSN need not be so restricted. GSN - The Goal Structuring Notation presents examples from diverse subject areas, including business management, drama, engineering, politics and astrobiology.

Frank Springer and New Mexico Nov 08 2020 The country Frank Springer rode into in 1873 was one of immense beauty and abundant resources - grass and timber, wild game, precious metals, and a vast bed of commercial-grade coal. It was also a stage upon which dramatic and sometimes violent events played out. A lawyer and newspaperman for the Maxwell Land Grant company and a foe of the speculators known as

""the Santa Fe Ring,"" Springer found himself in the middle of the Colfax County War. A man of many sides, he typified the Gilded Age entrepreneurs who transformed the territorial American Southwest. As president of the Maxwell Land Grant company, Springer led in the development of mining, logging, ranching, and irrigation enterprises. His Supreme Court victory establishing title to the 1.7 million acre Maxwell grant earned him a reputation as a brilliant attorney.

Dance Notations and Robot Motion May 27 2022 How and why to write a movement? Who is the writer? Who is the reader? They may be choreographers working with dancers. They may be roboticists programming robots. They may be artists designing cartoons in computer animation. In all such fields the purpose is to express an intention about a dance, a specific motion or an action to perform, in terms of intelligible sequences of elementary movements, as a music score that would be devoted to motion representation. Unfortunately there is no universal language to write a motion. Motion languages live together in a Babel tower populated by biomechanists, dance notators, neuroscientists, computer scientists, choreographers, roboticists. Each community handles its own concepts and speaks its own language. The book accounts for this diversity. Its origin is a unique workshop held at LAAS-CNRS in Toulouse in 2014. Worldwide representatives of various communities met there. Their challenge was to reach a mutual understanding allowing a choreographer to access robotics concepts, or a computer scientist to understand the subtleties of dance notation. The liveliness of this multidisciplinary meeting is reflected by the book thank to the willingness of authors to share their own experiences with others.

Pervasive Computing Jan 11 2021 nd Welcome to the proceedings of PERVASIVE 2004, the 2 International C- ference on Pervasive Computing and the premier forum for the presentation and appraisal of the most recent and most advanced research results in all - undational and applied areas of pervasive and ubiquitous computing. Consi- ring the half-life period of technologies and knowledge this community is facing, PERVASIVE is one of the most vibrant, dynamic, and evolutionary among the computer-science-related symposia and conferences. The research challenges, e?orts, and contributions in pervasive computing have experienced a breathtaking acceleration over the past couple of years, mostly due to technological progress, growth, and a shift of paradigms in c- puter science in general. As for technological advances, a vast manifold of tiny, embedded, and autonomous computing and communication systems have st- ted to create and populate a pervasive and ubiquitous computing landscape, characterized by paradigms like autonomy, context-awareness, spontaneous - teraction, seamless integration, self-organization, ad hoc networking, invisible services, smart artifacts, and everywhere interfaces. The maturing of wireless networking, miniaturized information-processing possibilities induced by novel microprocessor technologies, low-power storage systems, smart materials, and technologies for motors, controllers, sensors, and actuators envision a future computing scenario in which almost every object in our everyday environment will be equipped with embedded processors, wireless communication facilities, and embedded software to perceive, perform, and control a multitude of tasks and functions.

Ample Subvarieties of Algebraic Varieties Mar 13 2021

N=2 Supersymmetric Dynamics for Pedestrians Aug 30 2022 Understanding the dynamics of gauge theories is crucial, given the fact that all known interactions are based on the principle of local gauge symmetry. Beyond the perturbative regime, however, this is a notoriously difficult problem. Requiring invariance under supersymmetry turns out to be a suitable tool for analyzing supersymmetric gauge theories over a larger region of the space of parameters. Supersymmetric quantum field theories in four dimensions with extended N=2 supersymmetry are further constrained and have therefore been a fertile field of research in theoretical physics for quite some time. Moreover, there are far-reaching mathematical ramifications that have led to a successful dialogue with differential and algebraic geometry. These lecture notes aim to introduce students of modern theoretical physics to the fascinating developments in the understanding of N=2 supersymmetric gauge theories in a coherent fashion. Starting with a gentle introduction to electric-magnetic duality, the author guides readers through the key milestones in the field, which include the work of Seiberg and Witten, Nekrasov, Gaiotto and many others. As an advanced graduate level text, it assumes that readers have a working knowledge of supersymmetry including the formalism of superfields, as well as of quantum field theory techniques such as regularization, renormalization and anomalies. After his graduation from the University of Tokyo, Yuji Tachikawa worked at the Institute for Advanced Study, Princeton and the Kavli Institute for Physics and Mathematics of the Universe. Presently at the Department of Physics, University of Tokyo, Tachikawa is the author of several important papers in supersymmetric quantum field theories and string theory.

Seminar on Algebraic Groups and Related Finite Groups Jan 23 2022
Mission to Saturn May 15 2021 Saturn is back in the news! The Cassini/Huygens spacecraft, a joint venture by NASA and the European Space Agency, is on its way to Saturn, where it will arrive in July 2004. During 2005 it will explore beneath the clouds of Titan, Saturn's largest moon and potential home for extraterrestrial life. Written by an established space historian and experienced author, Mission To Saturn - Cassini and the Huygens Probe is an up-to-date and timely review of our knowledge of Saturn and its enigmatic moon, Titan, on which the Huygens probe will land to search for prebiotic chemistry or even life. It explains how the mission was planned, how it will operate and, as the spacecraft nears its target, puts into context the discoveries that are sure to follow from this once-in-a-lifetime mission.

I Just Wanna Stay Home & Hang Out with My English Springer Spaniel Jan 29 2020 Our designers have true love for this dog breed cute dogs. We tried to show our love for all dog puppy owners and fans. 120 blank wide lined white pages Duo sided wide ruled sheets Perfect sturdy matte softbound cover 6" x 9" dimensions; we consider it one of the perfect size for your purse, desk, backpack, school, home or work You can feel free to use this as a notebook, journal, diary or composition book for school and works Perfectly suited for taking notes, writing, organizing, lists, journaling and brainstorming Can be a perfect gift for adults and kids for any gift giving occasion Designed in USA

Inventive Computation Technologies Apr 13 2021 With the intriguing development of technologies in several industries, along with the advent of ubiquitous computational resources, there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty, imprecision, and vagueness in various real-life problems. The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques. In the near future, computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision, natural language processing, deep learning, machine learning, scientific computing, and computational vision. A vast number of intelligent computational algorithms are emerging, along with increasing computational power, which has significantly expanded the potential for developing intelligent applications. These proceedings of the International Conference on Inventive Computation Technologies [ICICT 2019] cover innovative computing applications in the areas of data mining, big data processing, information management, and security.

Differential Equations Apr 01 2020 This textbook is a comprehensive treatment of ordinary differential equations, concisely presenting basic and essential results in a rigorous manner. Including various examples from physics, mechanics, natural sciences, engineering and automatic theory, Differential Equations is a bridge between the abstract theory of differential equations and applied systems theory. Particular attention is given to the existence and uniqueness of the Cauchy problem, linear differential systems, stability theory and applications to first-order partial differential equations. Upper undergraduate students and researchers in applied mathematics and systems theory with a background in advanced calculus will find this book particularly useful. Supplementary topics are covered in an appendix enabling the book to be completely self-contained.

Fundamental Approaches to Software Engineering Dec 10 2020 ETAPS'99 is the second instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprises ?ve conferences (FOSSACS, FASE, ESOP, CC, TACAS), four satellite workshops (CMCS, AS, WAGA, CoFI), seven invited lectures, two invited tutorials, and six contributed tutorials. The events that comprise ETAPS address various aspects of the system - velopment process, including speci?cation, design, implementation, analysis and improvement. The languages, methodologies and tools which support these - tivities are all well within its scope. Di?erent blends of theory and practice are represented, with an inclination towards theory with a practical motivation on one hand and soundly-based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

Springer-Verlag: History of a Scientific Publishing House Nov 01 2022 This book describes the fortunes and activities of one of the few specialist publishing houses still in the hands of the same family that established it over years ago, and with it gives a p- trayal of those members who directed it. In doing so it covers a period of momentous historical events that directly and in- rectly shaped the firm's actions and achievements. But this volume tells not only, in word and picture, the story of Springer- Verlag but also, interwoven with it, the story of scientific p- lishing in Germany over the span of a hundred years. The text, densely packed with carefully researched facts and figures, is illuminated and supplemented by many illustrations whose captions, together with the author's notes, contain a wealth of important and interesting information. The reader is urged to read these captions as well as the notes so as to - preciate in full the events and people described. I have added a few footnotes to clarify or expand on some matters that may be unfamiliar to non-German readers. Because of the long period of time covered in these pages many of the documents and letters shown and commented upon are different in diction and style from those of today. An - tempt was made in the translation to keep the flavour of the original language and not contemporise it.

Homotopical Algebra Sep 30 2022

Tattooed Bodies Mar 01 2020 "Tattooed Bodies--apart from often being an exemplary model of Continental philosophy--is a groundbreaking contribution to tattoo studies that shows us how tattooing, when taken seriously, can open up the meanings of works of art, literature, film, and theory itself in unexpected ways. For those who have already been thinking about the meaning of "the tattoo," this collection of essays will greatly expand possibilities of inquiry. For those who are new to the field, several essays act simply as excellent primers on how to undertake deconstructive, anthropological, aesthetic analysis in general offering up scholarly, nuanced investigations of texts without indulging in exclusionary jargon." -Danielle Meijer, DePaul University "What is a tattoo? Associated in the past with criminals and degenerates, tattoos have become high fashion in the 21st century. In this collection, leading scholars speculate about the nature and implications of these bodily inscriptions. Are they social or antisocial? Conformist or rebellious? Decorative or disfiguring? Atavistic or futuristic? How do they relate to other scars, such as the navel as the mark of our maternal origin? By opening up these questions and many more, the essays in this volume show how the tattoo challenges the distinction between word and flesh, self and society, life and death." -Maud Ellmann, University of Chicago The essays collected in Tattooed Bodies draw on a range of theoretical paradigms and empirical knowledge to investigate tattoos, tattooing, and our complex relations with marks on skin. Engaging with perspectives in art history, continental philosophy, media studies, psychoanalysis, critical theory, literary studies, biopolitics, and cultural anthropology, the volume reflects the diversity of meanings attributed to tattoos across cultures. Essays explore tattoos and tattooing in Derrida, Deleuze and Guattari, Lacan, Agamben, and Jean-Luc Nancy, while interpreting tattoos in literary works by Melville, Beckett, Kafka, Genet, and Jeff VanderMeer, among others. James Martell is Associate Professor of French at Lyon College, USA. Erik Larsen is Assistant Professor of Medical Humanities at the University of Rochester, USA.

Digital Technologies and Applications May 03 2020 This book gathers selected research papers presented at the First International Conference on Digital Technologies and Applications (ICDTA 21), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 29–30 January 2021. highlighting the latest innovations in digital technologies as: artificial intelligence, Internet of things, embedded systems, network technology, information processing, and their applications in several areas such as hybrid vehicles, renewable energy, robotic, and COVID-19. The respective papers encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Logic, Language, Information, and Computation Apr 25 2022 Edited in collaboration with FoLLI, the Association of Logic, Language and Information this book constitutes the refereed proceedings of the 27th Workshop on Logic, Language, Information and Communication, WoLLIC 2021, Virtual Event, in October 2021. The 25 full papers presented included 6 invited lectures were fully reviewed and selected from 50 submissions. The idea is to have a forum which is large enough in the number of possible interactions between logic and the sciences related to information and computation.

Proceedings of International Conference on Advances in Tribology and Engineering Systems Sep 26 2019 This book contains advanced-level research material in the area of lubrication theory and related aspects, presented by eminent researchers during the International Conference on Advances in Tribology and Engineering Systems (ICATES 2013) held at Gujarat Technological University, Ahmedabad, India during October 15–17, 2013. The material in this book represents the advanced field of tribology and reflects the work of many eminent researchers from both India and abroad. The treatment of the presentations is the result of the contributions of several professionals working in the industry and academia. This book will be useful for students, researchers, academicians, and professionals working in the area of tribology, in general, and bearing performance characteristics, in particular, especially from the point-of-view of design. This book will also appeal to researchers and professionals working in fluid-film lubrication and other practical applications of tribology. A wide range of topics has been included despite space and time constraints. Basic concepts and fundamentals techniques have been emphasized upon, while also including highly specialized topics and methods (such as nanotribology, bio-nanotribology). Care has been taken to generate interest for a wide range of readers, considering the interdisciplinary nature of the subject.

Glaciers and Ice Sheets in the Climate System Feb 09 2021 Our realisation of how profoundly glaciers and ice sheets respond to climate change and impact sea level and the environment has propelled their study to the forefront of Earth system science. Aspects of this multidisciplinary endeavour now constitute major areas of research. This book is named after the international summer school held annually in the beautiful alpine village of Karthaus, Northern Italy, and consists of twenty chapters based on lectures from the school. They cover theory, methods, and observations, and introduce readers to essential glaciological topics such as ice-flow dynamics, polar meteorology, mass balance, ice-core analysis, paleoclimatology, remote sensing and geophysical methods, glacial isostatic adjustment, modern and past glacial fluctuations, and ice sheet reconstruction. The chapters were written by thirty-four contributing authors who are leading international authorities in their fields. The book can be used as a graduate-level textbook for a university course, and as a valuable reference guide for practising glaciologists and climate scientists.

Simple Singularities and Simple Algebraic Groups Dec 22 2021
Field Notes Sep 06 2020

Large-Scale Scientific Computing Jun 15 2021 This book constitutes revised papers from the 12th International Conference on Large-Scale Scientific Computing, LSSC 2019, held in Sozopol, Bulgaria, in June 2019. The 70 papers presented in this volume were carefully reviewed and selected from 81 submissions. The book also contains two invited talks. The papers were organized in topical sections named as follows: control and optimization of dynamical systems; meshfree and particle methods; fractional diffusion problems: numerical methods, algorithms and applications; pore scale flow and transport simulation; tensors based algorithms and structures in optimization and applications; HPC and big data: algorithms and applications; large-scale models: numerical methods, parallel computations and applications; monte carlo algorithms: innovative applications in conjunctions with other methods; application of metaheuristics to large-scale problems; large scale machine learning: multiscale algorithms and performance guarantees; and contributed papers.

The Atiyah-Singer Index Theorem Aug 18 2021

Theory of Vector Optimization Mar 25 2022 These notes grew out of a series of lectures given by the author at the Univer sity of Budapest during 1985-1986. Additional results have been included which were obtained while the author was at the University of Erlangen-Niirnberg under a grant of the Alexander von Humboldt Foundation. Vector optimization has two main sources coming from economic equilibrium and welfare theories of Edgeworth (1881) and Pareto (1906) and from mathemat ical backgrounds of ordered spaces of Cantor (1897) and Hausdorff (1906). Later, game theory of Borel (1921) and von Neumann (1926) and production theory of Koopmans (1951) have also contributed to this area. However, only in the fifties, after the publication of Kuhn-Tucker's paper (1951) on the necessary and sufficient conditions for efficiency, and of Deubreu's paper (1954) on valuation equilibrium and Pareto optimum, has vector optimization been recognized as a mathematical discipline. The stretching development of this field began later in the seventies and eighties. Today there are a number of books on vector optimization. Most of them are concerned with the methodology and the applications. Few of them offer a systematic study of the theoretical aspects. The aim of these notes is to pro vide a unified background of vector optimization,with the emphasis on nonconvex problems in infinite dimensional spaces ordered by convex cones. The

notes are arranged into six chapters. The first chapter presents preliminary material.

Determinantal Rings Dec 30 2019 Determinantal rings and varieties have been a central topic of commutative algebra and algebraic geometry. Their study has attracted many prominent researchers and has motivated the creation of theories which may now be considered part of general commutative ring theory. The book gives a first coherent treatment of the structure of determinantal rings. The main approach is via the theory of algebras with straightening law. This approach suggest (and is simplified by) the simultaneous treatment of the Schubert subvarieties of Grassmannian. Other methods have not been neglected, however. Principal radical systems are discussed in detail, and one section is devoted to each of invariant and representation theory. While the book is primarily a research monograph, it serves also as a reference source and the reader requires only the basics of commutative algebra together with some supplementary material found in the appendix. The text may be useful for seminars following a course in commutative ring theory since a vast number of notions, results, and techniques can be illustrated significantly by applying them to determinantal rings.

Maida Springer Jun 03 2020 Maida Springer was an active participant in shaping a history that involved powerful movements for social, political and economic equality and justice for workers women, and African Americans. Maida Springer is the first full-length biography to document and analyze the central role played by Springer in international affairs, particularly in the formation of AFL-CIO's African policy during the Cold War and African independence movements. Richards explores the ways in which pan-Africanism, racism, sexism and anti-Communism affected Springer's political development, her labor activism, and her relationship with labor leaders in the AFL-CIO, the International Confederation of Free Trade Unions (ICFTU), and in African unions. Springer's life experiences and work reveal the complex nature of black struggles for equality and justice. A strong supporter of both the AFL-CIO and the ICFTU, Springer nonetheless recognized that both organizations were fraught with racism, sexism, and ethnocentrism. She also understood that charges of Communism were often used as a way to thwart African American demands for social justice. As an African-American, she found herself in the unenviable position of promoting to Africans the ideals of American democracy from which she was excluded from fully enjoying. Richards's biography of Maida Springer uniquely connects pan-Africanism, national and international labor relations, the Cold War, and African American, labor, women's, and civil rights histories. In addition to documenting Springer's role in international labor relations, the biography provides a larger view of a whole range of political leaders and social movements. Maida Springer is a stirring biography that spans the fields of women studies, African American studies, and labor history.

Robotics, Vision and Control Aug 06 2020 The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used —instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at http://www.petercorke.com/RVC

Quantum Physics Jul 29 2022 This textbook is intended to accompany a two-semester course on quantum mechanics for physics students. Along with the traditional material covered in such a course (states, operators, Schrödinger equation, hydrogen atom), it offers in-depth discussion of the Hilbert space, the nature of measurement, entanglement, and decoherence – concepts that are crucial for the understanding of quantum physics and its relation to the macroscopic world, but rarely covered in entry-level textbooks. The book uses a mathematically simple physical system – photon polarization – as the visualization tool, permitting the student to see the entangled beauty of the quantum world from the very first pages. The formal concepts of quantum physics are illustrated by examples from the forefront of modern quantum research, such as quantum communication, teleportation and nonlocality. The author adopts a Socratic pedagogy: The student is guided to develop the machinery of quantum physics independently by solving sets of carefully chosen problems. Detailed solutions are provided.

Special Publication Jul 25 2019

Regression Modeling Strategies Jul 05 2020 Many texts are excellent sources of knowledge about individual statistical tools, but the art of data analysis is about choosing and using multiple tools. Instead of presenting isolated techniques, this text emphasizes problem solving strategies that address the many issues arising when developing multivariable models using real data and not standard textbook examples. It includes imputation methods for dealing with missing data effectively, methods for dealing with nonlinear relationships and for making the estimation of transformations a formal part of the modeling process, methods for dealing with "too many variables to analyze and not enough observations," and powerful model validation techniques based on the bootstrap. This text realistically deals with model uncertainty and its effects on inference to achieve "safe data mining".

Advances in Home Care Technologies Oct 08 2020 An ageing population is burdening social and healthcare services around the world, and this problem is likely to get worse as the percentage of older people continues to rise. Many governments are already responding to this challenge, and a key element in their strategies is the development and deployment of computer-based telecare and telehealth technologies to support care at home in a cost-effective manner. Human involvement in care continues to be central, but home care technologies can offer reassurance, and support routine aspects, to the benefit of all concerned. This book provides an up-to-date overview of key advances in the relevant technology, with an in-depth examination of the latest research in various home care technologies by experts in the field. The book mainly discusses the results of the Mobilising Advanced Technologies for Care at Home (MATCH) project, co-ordinated by the University of Stirling in Scotland, but work on related projects is also included. The book will be of interest to all researchers and practitioners in the fields of telecare and telehealth, policymakers in these areas, and providers of social and healthcare with an interest in technology.

Branching Random Walks Jul 17 2021 Providing an elementary introduction to branching random walks, the main focus of these lecture notes is on the asymptotic properties of one-dimensional discrete-time supercritical branching random walks, and in particular, on extreme positions in each generation, as well as the evolution of these positions over time. Starting with the simple case of Galton-Watson trees, the text primarily concentrates on exploiting, in various contexts, the spinal structure of branching random walks. The notes end with some applications to biased random walks on trees.

Wide Ruled Composition Book Aug 25 2019 Who says notebooks have to be boring?Wide Ruled Composition Book Wouldn't an adorable Springer Spaniel puppy cover be more fun than a boring black and white notebook!?!?! These beautiful 120-page books are lined to standard wide-ruled margins with a table of contents to help keep track of each topic. Perfect For: Keeping Track of a Busy Life Note taking for High School and College Students Home School Assignments Staying Organized at Work for Professionals Writers and Poets Journaling Hard to Buy For People - Makes a Great Gift! Be Sure to See Our Entire Collection of Beautiful Art and Design Covers! See Our Amazon Author Page for the Complete Set! (Just Search for New Nomads Press!) Product Details: Size: 8" x 10" (20cm x 25cm) - Perfect for Backpack or Laptop Bag Content: 120 Pages of Blank Wide Rule, Lined 60# White Paper Extras: Cover Page with space for name & contact information, Table of Contents with Page Numbers Durable: Soft Cover with Sueded Matte Finish About New Nomads Press We are an adventurous married couple who roam the world to find the best coffee shops, food experiences and beautiful landscapes! We make our designs specifically to help keep a bit of beauty and wanderlust in your life! You only have one chance at life, Be Happy!

Trees Oct 27 2019 The seminal ideas of this book played a key role in the development of group theory since the 70s. Several generations of mathematicians learned geometric ideas in group theory from this book. In it, the author proves the fundamental theorem for the special cases of free groups and tree products before dealing with the proof of the

general case. This new edition is ideal for graduate students and researchers in algebra, geometry and topology.