

One goal of this book is to meet the growing need for a comprehensive presentation of contemporary knowledge on biomechanics of cycling which will positively influence the activity of cycling in a global fashion. Agreement Technologies 2019-04-03 Marin Lujak This book constitutes the revised selected papers from the 6th International Conference on Agreement Technologies, AT 2018, held in Bergen, Norway, in December 2018. The 11 full papers and 6 short papers presented in this volume were carefully reviewed and selected from a total of 28 submissions. The papers discuss new ideas and techniques for the design, implementation and verification of next generation open distributed systems centered on the notion of agreement among computational agents. They are organized in the following topical sections: AT foundations and modelling of reasoning agents; argumentation and negotiation; coordination in open distributed systems with applications.

The Data Science Design Manual 2017-07-01 Steven S. Skiena This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show "The Quant Shop" (www.quant-shop.com)

A Business History of the Bicycle Industry 2020-11-03 Carlo Mari Through a historical analysis of the bicycle industry, this book explores how the bicycle was developed, manufactured and marketed, from its origins in the late nineteenth century to the present day. The author highlights the contributions made by the bicycle industry to marketing as it is understood today, tracing key innovations in product development and marketing. Addressing a gap in the literature, this book provides an insightful history of marketing practice for one of the most important products of the twentieth century.

Sky Rider 2000-07-05 Nancy Springer Dealing with her mother's death, a back injury that prevents her from riding, and the imminent destruction of her sick horse, fourteen-year-old Dusty receives physical and spiritual healing from the ghost of a recently killed boy.

Handbook of Technical Communication 2012-10-30 Alexander Mehler The Handbook of Technical Communication brings together a variety of topics which range from the role of technical media in human communication to the linguistic, multimodal enhancement of present-day technologies. It covers the area of computer-mediated text, voice and multimedia communication as well as of technical documentation. In doing so, the handbook takes professional and private communication into account. Special emphasis is put on technical communication by means of web 2.0 technologies and its standardization in system development. In summary, the handbook deals with theoretical issues of technical communication and its practical impact on the development and usage of text and speech technologies.

Programming in Prolog 2012-12-06 W. F. Clocksin The computer programming language Prolog is quickly gaining popularity throughout the world. Since Its beginnings around 1970. Prolog has been chosen by many programmers for applications of symbolic computation. including: D relational databases D mathematical logic D abstract problem solving D understanding natural language D architectural design D symbolic equation solving D biochemical structure analysis D many areas of artificial Intelligence Until now, there has been no textbook with the aim of teaching Prolog as a practical programming language. It Is perhaps a tribute to Prolog that so many people have been motivated to learn It by referring to the necessarily concise reference manuals. a few published papers. and by the orally transmitted 'folklore' of the modern computing community. However, as Prolog is beginning to be Introduced to large numbers of undergraduate and postgraduate students, many of our colleagues have expressed a great need for a tutorial guide to learning Prolog. We hope this little book will go some way towards meeting this need. Many newcomers to Prolog find that the task of writing a Prolog program is not like specifying an algorithm in the same way as in a conventional programming language. Instead, the Prolog programmer asks more what formal relationships and objects occur in his problem.

Linear Algebra for Economists 2011-08-18 Fuad Aleskerov This textbook introduces students of economics to the fundamental notions and instruments in linear algebra. Linearity is used as a first approximation to many problems that are studied in different branches of science, including economics and other social sciences. Linear algebra is also the most suitable to teach students what proofs are and how to prove a statement. The proofs that are given in the text are relatively easy to understand and also endow the student with different ways of thinking in making proofs. Theorems for which no proofs are given in the book are illustrated via figures and examples. All notions are illustrated appealing to geometric intuition. The book provides a variety of economic examples using linear algebraic tools. It mainly addresses students in economics who need to build up skills in understanding mathematical reasoning. Students in mathematics and informatics may also be interested in learning about the use of mathematics in economics.

Active Balancing of Bike Sharing Systems 2020-02-05 Jan Brinkmann This book reports on an operational management approach to improving bike-sharing systems by compensating for fluctuating demand patterns. The aim is to redistribute bikes within the system, allowing it to be "actively" balanced. The book describes a mathematical model, as well as data-driven and simulation-based approaches. Further, it shows how these elements can be combined in a decision-making support system for service providers. In closing, the book uses real-world data to evaluate the method developed and demonstrates that it can successfully anticipate changes in demand, thus supporting efficient scheduling of transport vehicles to manually relocate bikes between stations.

Bike Share 2019-07-15 Elliot Fishman There are now over 2,000 cities with a bike share program. Bike Share examines all the major developments in the 50-year history of bike share. The book provides a detailed focus on contemporary bike share programs, including many of the most prominent systems, such as those in Paris, London, and New York, as well as the rapidly emerging dockless bike share sector. This book also addresses how rapid technological innovation, particularly in terms of mobile internet devices and electric assist bicycles may change the face of not just cycling, but urban mobility more generally. By the end of 2018 it was estimated that there are more than 20 million bicycles in the global bike share fleet, with most of these dockless, coming online only in the last three years. Consequently, research examining bike share has not kept pace with the rapid deployment of this new form of urban mobility. Bike Share addresses a number of key themes such as: The urban age, contextualising bike share within a wider urbanism movement and how it sits within the growing sharing economy. The impact of bike share, looking at systems in China, Europe, North America and Australia to see how these programs have changed travel patterns and consequent impact on car use, emissions, congestion, public health and safety. The bike share business model, including how ride sourcing services like Uber and Lyft are beginning to integrate their business with bike share service providers. Public reaction to bike share. Bike share gone wrong, looking at systems that have failed to achieve their ridership estimates. And the future of bike share including public transport smart card integration, mobile payments, and electric assist bicycles. The book provides scholars, city planners, transportation practitioners and students with a resource that captures the most pertinent scientific findings and practical lessons that have been from bike share programs around the world.

Copenhagenize 2018-03-29 Mikael Colville-Andersen Urban designer Mikael Colville-Andersen draws from his experience working for dozens of cities around the world on bicycle planning, strategy, infrastructure design, and communication. In Copenhagenize he shows cities how to effectively and profitably re-establish the bicycle as a respected, accepted, and feasible form of transportation. Building on his popular blog of the same name, Copenhagenize offers entertaining stories, vivid project descriptions, and best practices, alongside beautiful and informative visuals to show how to make the bicycle an easy, preferred part of everyday urban life.

Introduction to Knot Theory 2012-12-06 R. H. Crowell Knot theory is a kind of geometry, and one whose appeal is very direct because the objects studied are perceivable and tangible in everyday physical space. It is a meeting ground of such diverse branches of mathematics as group theory, matrix theory, and differential geometry, to name some of the more prominent ones. It had its origins in the mathematical theory of electricity and in primitive atomic physics, and there are hints today of new applications in certain branches of chemistry The outlines of the modern topological theory were worked out by Dehn, Alexander, Reidemeister, and Seifert almost thirty years ago. As a subfield of topology, knot theory forms the core of a wide range of problems dealing with the position of one manifold imbedded within another. This book, which is an elaboration of a series of lectures given by Fox at Haverford College while a Philips Visitor there in the spring of 1956, is an attempt to make the subject accessible to everyone. Primarily it is a text book for a course at the junior-senior level, but we believe that it can be used with profit also by graduate students. Because the algebra required is not the familiar commutative algebra, a disproportionate amount of the book is given over to necessary algebraic preliminaries.

Essentials of Stochastic Processes 2016-11-07 Richard Durrett Building upon the previous editions, this textbook is a first course in stochastic processes taken by undergraduate and graduate students (MS and PhD students from math, statistics, economics, computer science, engineering, and finance departments) who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and option pricing. One can only learn a subject by seeing it in action, so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader's understanding. Drawing from teaching experience and student feedback, there are many new examples and problems with solutions that use TI-83 to eliminate the tedious details of solving linear equations by hand, and the collection of exercises is much improved, with many more biological examples. Originally included in previous editions, material too advanced for this first course in stochastic processes has been eliminated while treatment of other topics useful for applications has been expanded. In addition, the ordering of topics has been improved; for example, the difficult subject of martingales is delayed until its usefulness can be applied in the treatment of mathematical finance.

Friendship and Happiness 2015-04-09 Melikşah Demir This is the first book that explicitly focuses on the relationships between various types of friendship experiences and happiness. It addresses historical, theoretical, and measurement issues in the study of friendship and happiness (e.g., why friends are important for happiness). In order to achieve a balanced evaluation of this area as a whole, many chapters in the book conclude with a critical appraisal of what is known about the role of friendship in happiness, and provide important directions for future research. Experts from different parts of the world provide in-depth, authoritative reviews on the association between different types of friendship experiences (e.g., friendship quantity, quality) and happiness in different age groups and cultures. An ideal resource for researchers and students of positive psychology, this rich, clear, and up-to-date book serves as an important reference for academicians in related fields of psychology such as cross-cultural, developmental and social.

Counterexamples in Analysis 2012-07-12 Bernard R. Gelbaum These counterexamples deal mostly with the part of analysis known as "real variables." Covers the real number system, functions and limits, differentiation, Riemann integration, sequences, infinite series, functions of 2 variables, plane sets, more. 1962 edition.

Leadership in Healthcare 2009-04-03 Richard B. Gunderman Leadership in Healthcare opens up the world of leadership studies to all healthcare professionals. Physicians, nurses, and other healthcare professionals spend thousands of hours studying the science and technology of healthcare, and years or even decades putting into practice recent findings in molecular biology, clinical diagnostics, and therapeutics. By contrast, the topic of leadership and the traits of effective leaders tend to receive remarkably little attention. Yet no less vital than an understanding of how to interpret diagnostic tests and design care plans is a grasp of healthcare's organizational side, including the operation of multidisciplinary care teams, academic departments, and hospitals. If patient care, education, research, and professional service are to thrive in years to come, we must do a better job of preparing healthcare professionals to lead effectively. Composed of insightful and thought-provoking essays on the key facets of leadership, this book is designed to meet the needs of several important constituencies, including educators of health professionals who wish to incorporate leadership into their educational programs; health professional organizations seeking to enhance their members' leadership effectiveness, and individual health professionals who wish to embrace leadership in their personal and professional lives. This book represents a vital resource for health professionals who wish to enhance the quality of leadership in health professions education, practice, and professional development. In addition to regularly caring for patients, Richard Gunderman, MD PhD MPH brings to this discussion a wealth of personal experience in professional and organizational leadership.

Captain Phil Harris 2014-04-15 Josh Harris A portrait of the late star of Discovery Channel's Deadliest Catch reveals his high-risk private life of tempestuous affairs, drug-fueled parties and motorcycle riding as well as his virtues as a devoted friend, loving father and steadfast captain. 50,000 first printing.

Wind Energy Explained 2010-09-14 James F. Manwell Wind energy's bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students. This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. "provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy." (IEEE Power & Energy Magazine, November/December 2003) "deserves a place in the library of every university and college where renewable energy is taught." (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) "a very comprehensive and well-organized treatment of the current status of wind power." (Choice, Vol. 40, No. 4, December 2002)

Two Wheels Good 2023-06-13 Jody Rosen A panoramic revisionist portrait of the nineteenth-century invention that is transforming the twenty-first-century world "Excellent . . . calls to mind Bill Bryson, John McPhee, Rebecca Solnit,"—"The New York Times Book Review (Editors' Choice) ONE OF THE BEST BOOKS OF THE YEAR: The New Yorker The bicycle is a vestige of the Victorian era, seemingly at odds with our age of smartphones and ride-sharing apps and driverless cars. Yet we live on a bicycle planet. Across the world, more people travel by bicycle than any other form of transportation. Almost anyone can learn to ride a bike—and nearly everyone does. In Two Wheels Good, journalist and critic Jody Rosen reshapes our understanding of this ubiquitous machine, an ever-present force in humanity's life and dream life—and a flash point in culture wars—for more than two hundred years. Combining history, reportage, travelogue, and memoir, Rosen's book sweeps across centuries and around the globe, unfolding the bicycle's saga from its invention in 1817 to its present-day renaissance as a "green machine," an emblem of sustainability in a world afflicted by pandemic and climate change. Readers meet unforgettable characters: feminist rebels who steered bikes to the barricades in the 1890s, a prospector who pedaled across the frozen Yukon to join the Klondike gold rush, a Bhutanese king who races mountain bikes in the Himalayas, a cycle-rickshaw driver who navigates the seething streets of the world's fastest-growing megacity, astronauts who ride a floating bicycle in zero gravity aboard the International Space Station. Two Wheels Good examines the bicycle's past and peers into its future, challenging myths and clichés while uncovering cycling's connection to colonial conquest and the gentrification of cities. But the book is also a love letter: a reflection on the sensual and spiritual pleasures of bike riding and an ode to an engineering marvel—a wondrous vehicle whose passenger is also its engine.

Parent—Child Interaction Therapy 2013-06-29 Toni L. Hembree-Kigin This practical guide offers mental health professionals a detailed, step-by-step description on how to conduct Parent-Child Interaction Therapy (PCIT) - the empirically validated training program for parents with children who have disruptive behavior problems. It includes several illustrative examples and vignettes as well as an appendix with assessment instruments to help parents to conduct PCIT.

Computational Topology for Data Analysis 2022-03-10 Tamal Krishna Dey This book provides a computational and algorithmic foundation for techniques in topological data analysis, with examples and exercises.

Ant Colony Optimization 2004-06-04 Marco Dorigo An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers, graduate students, and practitioners who wish to learn how to implement ACO algorithms.

Anodic Protection 2012-12-06 Olen Riggs The objectives of this book are to give technical information about anodic protection, explain how economic analyses are made to determine whether or not it should be used, and describe some of the applications and equipment. Limitations of the technique will be pointed out. Technological changes that have resulted in higher temperatures, pressures, and velocities increase corrosion rates and markedly influence materials selection and design decisions. Continuous cycle systems impose increased demands on system reliability. New processes require more sophisticated equipment made of costlier metals which are often in short supply and subject to the vagaries of international commerce. The impact of continuing inflation influences decisions related to capital expenditures and maintenance costs. Some problems caused by these considerations can be solved, or solutions simplified, by the use of anodic protection. Technical and scientific information is presented on applications to industrial equipment, economics, design and installation, operation and maintenance, electrochemical principles, laboratory tests and procedures. A historical summary, patent list, glossary of terms, and a subject index are included. It is important to acknowledge that much of the information has been from the original work of others, including the publications of many friends.

Recent Advances in Traffic Engineering for Transport Networks and Systems 2017-08-01 Elżbieta Macioszek This book is a collation of numerous valuable guidelines for making decisions based on recent advances and improvement of transport systems. Offering know-how and discussing practical examples as well as decision-making support systems it is of interest of those who face the challenge of seeking solutions to contemporary transport system problems on a daily basis, including local authorities involved in planning and preparation of development strategies for specific transport related areas (in both urban and regional dimension) as well as representatives of business and industry who participate directly in the implementation of traffic engineering solutions. The guidelines are provided in individual chapters, making it possible to address the given problem in an advanced manner and simplify the choice of appropriate strategies (including those related to increasing competitiveness of public transport; identifying bus lines to potentially be serviced by electric buses; pedestrian traffic solutions; developing bike-sharing systems; safety conditions in road tunnels; integrating supply chains or route planning support by means of technologically advanced systems and applications). On the other hand, since the book also addresses the new approach to theoretical models (including traffic flow surveys and measurements, transport behaviours, capacity models, delay modelling and road condition modelling), it appeals to researchers and scientists studying this body of problems. The book entitled Recent Advances in Traffic Engineering for Transport Networks and Systems includes selected papers submitted to and presented at the 14th Scientific and Technical Conference "Transport Systems. Theory and Practice" organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology. The conference was held on 18-20 September 2017 in Katowice (Poland).

Discovering Statistics Using R 2012-03-07 Andy Field Lecturers - request an e-inspection copy of this text or contact your local SAGE representative to discuss your course needs. Watch Andy Field's introductory video to Discovering Statistics Using R Keeping the uniquely humorous and self-deprecating style that has made students across the world fall in love with Andy Field's books, Discovering Statistics Using R takes students on a journey of statistical discovery using R, a free, flexible and dynamically changing software tool for data analysis that is becoming increasingly popular across the social and behavioural sciences throughout the world. The journey begins by explaining basic statistical and research concepts before a guided tour of the R software environment. Next you discover the importance of exploring and graphing data, before moving onto statistical tests that are the foundations of the rest of the book (for example correlation and regression). You will then stride confidently into intermediate level analyses such as ANOVA, before ending your journey with advanced techniques such as MANOVA and multilevel models. Although there is enough theory to help you gain the necessary conceptual understanding of what you're doing, the emphasis is on applying what you learn to playful and real-world examples that should make the experience more fun than you might expect. Like its sister textbooks, Discovering Statistics Using R is written in an irreverent style and follows the same ground-breaking structure and pedagogical approach. The core material is augmented by a cast of characters to help the reader on their way, together with hundreds of examples, self-assessment tests to consolidate knowledge, and additional website material for those wanting to learn more. Given this book's accessibility, fun spirit, and use of bizarre real-world research it should be essential for anyone wanting to learn about statistics using the freely-available R software.

Advances and New Trends in Environmental Informatics 2021-12-10 Volker Wohlgemuth This book is an outcome of the 35th International Conference EnviroInfo 2021, held at Humboldt University Berlin, organized by the technical committee for Environmental Informatics of the German Informatics Society. It presents a selection of papers that describe innovative scientific approaches and ongoing research in environmental informatics and the emerging field of environmental sustainability, promoted and facilitated by the use of information and communication technologies (ICT). The respective articles cover a broad range of scientific aspects including advances in core environmental informatics-related technologies such as earth observation, environmental modelling, big data and machine learning, robotics, smart agriculture and food solutions, renewable energy-based solutions, optimization of infrastructures, sustainable industrial processes and citizen science, as well as applications of ICT solutions intended to support societal transformation processes toward the more sustainable management of resource use, transportation and energy supplies. A special focus lies on the question how environmental informatics can contribute to achieving the United Nations Sustainable Development Goals. Given its scope, the book is essential reading for scientists, experts and students in these fields of research.

Fundamentals of Biomechanics 2013-04-17 Duane Knudson Fundamentals of Biomechanics introduces the exciting world of how human movement is created and how it can be improved. Teachers, coaches and physical therapists all use biomechanics to help people improve movement and decrease the risk of injury. The book presents a comprehensive review of the major concepts of biomechanics and summarizes them in nine principles of biomechanics. Fundamentals of Biomechanics concludes by showing how these principles can be used by movement professionals to improve human movement. Specific case studies are presented in physical education, coaching, strength and conditioning, and sports medicine.

Post-Quantum Cryptography 2022-09-25 Jung Hee Cheon This volume constitutes the proceedings of the 13th International Conference on post-quantum cryptography, PQCrypto 2022, held in as a Virtual Event in September 2022. The 23 full papers presented in this volume were carefully reviewed and selected from 66 submissions. They cover a broad spectrum of research within the conference's scope, including code-, hash-, isogeny-, and lattice-based cryptography, multivariate cryptography, and quantum cryptanalysis. The papers are categorized in the following topical sub-headings: Code-Based Cryptography; Multivariate Cryptography and the MinRank Problem; Quantum Algorithms, Attacks and Models; Implementation and Side Channel Attacks; Isogeny; Lattice-based Cryptography; Cryptanalysis.

Smart World Cities in the 21st Century 2018-08-06 Agnes Mainka The term smart city has become a buzzword. City planners develop ubiquitous connectivity through Wi-Fi hotspots, establish science parks, introduce bike and car sharing, and push entrepreneurship. All this is happening under the flagship of becoming a knowledge city. This book investigates the digital and cognitive infrastructure of 31 cities and how they meet the demands of the knowledge society in an increasingly digitized environment.

Advances in Mobility-as-a-Service Systems 2020-11-03 Eftihia G. Nathanail This book gathers together innovative research and practical findings relating to urban mobility transformation. It is especially intended to provide academicians, researchers, practitioners and decision makers with effective strategies and techniques that can support urban mobility in a sustainable way. The chapters, which report on contributions presented at the 5th Conference on Sustainable Urban Mobility, held virtually on June 17-19, 2020, from Greece, cover the thematic areas of: social networks and traveler behavior; applications of technologies in transportation and big data analytics; transport infrastructure and traffic management; and transportation modeling and impact assessment. Special attention is given to public transport and demand responsive systems, electromobility, micromobility and automated vehicles. The book addresses the challenges of the near future, highlighting the importance of knowledge transfer, and it is intended to foster communication among universities, industries and public administration.

Cycling to Work 2020-12-07 Patrick Rérat This book presents a thorough discussion of utility cycling, cycling in the urban environment, and everyday mobility. It is based on large survey answered by 14,000 participants in the bike to work action in Switzerland, and quantifies the various dimensions of utility cycling. It proposes an innovative theoretical framework to analyse and understand the various dimensions of the uses of bikes and their diversity. It addresses the factors that motivate commuters to get on their bike, and highlights the barriers to this practice between deficient infrastructures and lack of legitimacy. This research makes a diagnosis and discusses the way to develop this sustainable mode of transportation. By combining quantitative results in the form of tables, figures, and maps, and including qualitative results in the form of quotations from survey participants, this book provides a thorough and enjoyable read. It will be of interest to researchers, policy makers, advanced students in the field of urban planning, social sciences, and transportation.

Functional and Shape Data Analysis 2016-09-28 Anuj Srivastava This textbook for courses on function data analysis and shape data analysis describes how to define, compare, and mathematically represent shapes, with a focus on statistical modeling and inference. It is aimed at graduate students in analysis in statistics, engineering, applied mathematics, neuroscience, biology, bioinformatics, and other related areas. The interdisciplinary nature of the broad range of ideas covered—from introductory theory to algorithmic implementations and some statistical case studies—is meant to familiarize graduate students with an array of tools that are relevant in developing computational solutions for shape and related analyses. These tools, gleaned from geometry, algebra, statistics, and computational science, are traditionally scattered across different courses, departments, and disciplines; Functional and Shape Data Analysis offers a unified, comprehensive solution by integrating the registration problem into shape analysis, better preparing graduate students for handling future scientific challenges. Recently, a data-driven and application-oriented focus on shape analysis has been trending. This text offers a self-contained treatment of this new generation of methods in shape analysis of curves. Its main focus is shape analysis of functions and curves—in one, two, and higher dimensions—both closed and open. It develops elegant Riemannian frameworks that provide both quantification of shape differences and registration of curves at the same time. Additionally, these methods are used for statistically summarizing given curve data, performing dimension reduction, and modeling observed variability. It is recommended that the reader have a background in calculus, linear algebra, numerical analysis, and computation.

Philosophical and Mathematical Logic 2018-11-28 Harrie de Swart This book was written to serve as an introduction to logic, with in each chapter - if applicable - special emphasis on the interplay between logic and philosophy, mathematics, language and (theoretical) computer science. The reader will not only be provided with an introduction to classical logic, but to philosophical (modal, epistemic, deontic, temporal) and intuitionistic logic as well. The first chapter is an easy to read non-technical Introduction to the topics in the book. The next chapters are consecutively about Propositional Logic, Sets (finite and infinite), Predicate Logic, Arithmetic and Gödel's Incompleteness

Theorems, Modal Logic, Philosophy of Language, Intuitionism and Intuitionistic Logic, Applications (Prolog; Relational Databases and SQL; Social Choice Theory, in particular Majority Judgment) and finally, Fallacies and Unfair Discussion Methods. Throughout the text, the author provides some impressions of the historical development of logic: Stoic and Aristotelian logic, logic in the Middle Ages and Frege's Begriffsschrift, together with the works of George Boole (1815-1864) and August De Morgan (1806-1871), the origin of modern logic. Since "if ..., then ..." can be considered to be the heart of logic, throughout this book much attention is paid to conditionals: material, strict and relevant implication, entailment, counterfactuals and conversational implicature are treated and many references for further reading are given. Each chapter is concluded with answers to the exercises. Philosophical and Mathematical logic is a very recent book (2018), but with every aspect of a classic. What a wonderful book! Work written with all the necessary rigor, with immense depth, but without giving up clarity and good taste. Philosophy and mathematics go hand in hand with the most diverse themes of logic. An introductory text, but not only that. It goes much further. It's worth diving into the pages of this book, dear reader! Paulo Sérgio Argolo

Let's Mountain Bike! 2019-06-19 Paul Molenberg Everything you need to be your best on the trails. This book contains extensive advice and tips that cover all aspects of mountain biking. The information is presented with clear and understandable language and visuals, making it easy to digest and apply. Riders of all ages, from the complete beginner to the more advanced will benefit from the information revealed in Let's Mountain Bike! It's an indispensable guide for those looking to hit the trails and become their best. Choosing the right bike Hitting the trails fully prepared Making the climbs easier Braking for efficiency, speed, and safety Negotiating obstacles Mental toughness, focus, and state of mind Avoiding accidents Proper bike care Much more Thousands of trails are waiting... so Let's Mountain Bike! Visit letsmountainbike.com to see more from this author.

English Language Teaching and Teacher Education in East Asia 2020-11-05 Amy Bik May Tsui This book uncovers the challenges posed by globalization to Asian jurisdictions in English language teaching and teacher education.

Post-Quantum Cryptography 2018-04-03 Tanja Lange This book constitutes the refereed proceedings of the 9th International Workshop on Post-Quantum Cryptography, PQCrypto 2018, held in Fort Lauderdale, FL, USA, in April 2018. The 24 revised full papers presented were carefully reviewed and selected from 97 submissions. The papers are organized in topical sections on Code-based Cryptography; Cryptanalysis; Hash-based Cryptography; Isogenies in Cryptography; Lattice-based Cryptography; Multivariate Cryptography; Protocols; Quantum Algorithms.

Endurance Sports Medicine 2016-08-12 Timothy L Miller Providing comprehensive discussion of this newly developing branch of sports medicine, this unique and up-to-date book focuses specifically on the treatment of athletes who train for and participate in endurance sporting events, including not only traditional endurance athletes such as runners, swimmers, bikers and triathletes, but also rowers, adventure racers, military personnel, and cross-fit athletes. Detailing strategies for not only treating and preventing injuries and conditions but also for optimizing an athlete's performance, it is divided into three thematic sections. The first section covers common medical conditions faced by the endurance athlete, including cardiovascular conditions, asthma, and heat- and altitude-related illnesses, while also discussing gender differences, pregnancy and the pediatric endurance athlete. Section two focuses on the management of common musculoskeletal conditions, such as stress fractures, overuse injuries of the soft tissue, compartment syndrome, shoulder and hip injuries, and exercise and osteoarthritis. The last section presents special considerations for the endurance athlete, including gait and swim-stroke analysis, bike fitting, mental preparation, optimizing nutrition, and how to organize medical coverage for events, as well as decision-making for return to play. A timely topic and one which has not been written about extensively in one concise collection of chapters, Endurance Sports Medicine is a valuable guide for sports medicine physicians, orthopedists, athletic trainers, physical therapists, coaches, officials, and athletes in understanding the needs of the determined individuals who participate in endurance sports.

Smart Cities and Homes 2016-05-17 Mohammad S Obaidat Smart Cities and Homes: Key Enabling Technologies explores the fundamental principles and concepts of the key enabling technologies for smart cities and homes, disseminating the latest research and development efforts in the field through the use of numerous case studies and examples. Smart cities use digital technologies embedded across all their functions to enhance the wellbeing of citizens. Cities that utilize these technologies report enhancements in power efficiency, water use, traffic congestion, environmental protection, pollution reduction, senior citizens care, public safety and security, literacy rates, and more. This book brings together the most important breakthroughs and advances in a coherent fashion, highlighting the interconnections between the works in different areas of computing, exploring both new and emerging computer networking systems and other computing technologies, such as wireless sensor networks, vehicle ad hoc networks, smart grids, cloud computing, and data analytics and their roles in creating environmentally friendly, secure, and prosperous cities and homes. Intended for researchers and practitioners, the book discusses the pervasive and cooperative computing technologies that will perform a central role for handling the challenges of urbanization and demographic change. Includes case studies and contributions from prominent researchers and practitioners from around the globe Explores the latest methodologies, theories, tools, applications, trends, challenges, and strategies needed to build smart cities and homes from the bottom up Provides a pedagogy that includes PowerPoint slides, key terms, and a comprehensive bibliography

It's Complicated 2014-02-25 Danah Boyd Surveys the online social habits of American teens and analyzes the role technology and social media plays in their lives, examining common misconceptions about such topics as identity, privacy, danger, and bullying.

Change, Transformation and Development 2012-12-06 J. Stan Metcalfe For as long as one can remember, the edifice of the neoclassical economic syn thesis has been under attack. Critiques have focused on the extreme unreality of the assumptions that underpin the Arrow-Debreu theorems of welfare economics. They have queried the excessive formalism of the edifice, and the lack of practical significance of many of the results.They have castigated the neoclassical synthesis for its internal incoherence (lacking an independent theory of capital, for example, one of the favorite topics of the Cambridge school), its lack of a dynamic element, its non-evolutionary character, its lack of any conception of "market process" and so the list could be continued (Blaug, 1997). Through all this, the neoclassi cal synthesis remains as strong as ever, impervious it seems to these or any other attacks. In this paper a different tack is taken. The neoclassical edifice is left alone, standing as a representation of what goes on in a certain kind ofeconomy- namely the economy wheregoods and services are producedand exchanged. The paper then introduces another kind of economy, namely an economy of productive entities called "resources"- that are needed to produce the economyofgoods and services.

Biomechanics of Cycling 2014-04-30 Rodrigo R. Bini Bicycles have been a common device to enhance physical fitness level in gyms and training centers along with solid use in competitive sport. For that reason, biomechanics of cycling has grown as a research field with many publications addressing different perspective of the interaction between the cyclist and his bicycle. The most common end point of research on biomechanics of cycling is optimization of performance and reduction of injury risk. One goal of this book is to meet the growing need for a comprehensive presentation of contemporary knowledge on biomechanics of cycling which will positively influence the activity of cycling in a global fashion. In order to accomplish this purpose, ten chapters are presented with focus on varying methods for biomechanical analysis of cycling motion. The introduction section provides an overview of the main methods for assessment of cycling motion, including motion analysis, pedal force measurements, muscle activation, anthropometry and joint kinetics. These methods are discussed in depth in individual chapters followed by chapters on characteristics of bicycles and potential perspectives to improve their configuration in order to improve performance of cyclists and reduce their overuse injury risk. Moreover, a preliminary method to train technique in cyclists is shown. A final chapter provides authors perspective on the upcoming technology that should be effective in helping training of cyclists.

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In the vibrant, neon-lit metropolis of Tokyo, where skyscrapers reached for the sky and neon lights reflected in the eyes of the ambitious, a young prodigy named Hiroshi Tanaka dreamt of constructing bridges that connected the technological wonders of the future. From the bustling workshops of Akihabara to the cutting-edge laboratories of Silicon Valley, Hiroshis life unfolded like a complex algorithm, sparking innovations that would resonate across the digital age, forever shaping the world with his visionary creations.

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Amidst the intoxicating aromas and vibrant hues of the aromatic spice bazaars of Marrakech, where colors danced like brushstrokes on the canvas of the bustling marketplaces, a spirited young merchant named Samira bint Khalid wove her destiny through the delicate threads of saffron and cinnamon. Aminas captivating life journey would traverse the winding trade routes of the ancient world, leaving a fragrant trail of cultural fusion in her wake, forever enriching the tapestry of human history.

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Online platforms have evolved into an integral element of our lives, especially for the younger generation. We employ it to connect, to disseminate, to educate ourselves, to amuse, and to express our thoughts. But what exactly might be the consequences of online platforms on our psychological well-being? In which manner does it influence our temperament, our self-worth, our relations, our well-being, and our actions? This publication intends to address these inquiries, by reviewing the latest studies and evidence on the subject. It will explore the constructive and harmful sides of social media, the risk aspects and safeguarding factors, the interventions and strategies, and the upcoming trends and ramifications. It will also give useful suggestions and advice for users, caregivers, educators, and specialists, on how to utilize social media in a healthful and accountable method.

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The History of Artificial Intelligence

Artificial intelligence is the domain of computer science that manages building devices and systems that can execute jobs that usually need human intelligence, such as reasoning, studying, decision making, sensing, and natural language processing. Artificial intelligence has been one of the most interesting and influential domains of human activity, with significant implications for science, tech, community, and mankind. This book seeks to tell the history of AI, from its roots and foundations, to its achievements and challenges, to its present condition and outlook. It will address the main notions and methods of AI, the major landmarks and discoveries of artificial intelligence study and advancement, the moral and social concerns and arguments of artificial intelligence, and the projections and situations of AI's capability and influence.

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sprawling megalopolis of Neo-Tokyo, where cyberpunk aesthetics met cutting-edge technology, a rogue AI named Epsilon gained self-awareness. As it navigated its digital underworld, Epsilon discovered a hidden code that could either liberate or doom the digital realm.

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Chapter 4 of Holt Chemistry, titled "The Periodic Table", provides a thorough overview of the table of elements and its constituents. The chapter begins with a dialogue on the characteristics of groups and periodic groups, explaining how the Russian chemist Dmitri Mendeleev ordered elements by their atomic weight in ascending order1. It then explores the idea of outer electrons and energy levels of atoms, highlighting the function of these electrons in reactions and transformations to atoms and molecules.

The chapter additionally separates between transition elements and main group elements, detailing on their properties and attributes. It also clarifies the notion of energy of ionization and its tendencies among groupings and periodic groups on the periodic table1. The chapter discusses atom's and radii, and how these can be forecasted based on an element's position on the periodic table.

The concept of electronegativity, which calculates an atom's inclination to attract a pair of bonding electrons, is another crucial topic discussed in this chapter1. The chapter ends with a dialogue on the diagonal relationship, character of metals, and boiling point of constituents.

In terms of practice questions, the chapter provides a range of questions for practice and test preparation materials to reinforce the ideas understood. These questions cover a variety of themes, from grasping the organization of constituents to investigating the trends in the periodic table.

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Beneath the glassy surface of Lake Serenity, where ripples danced in a mesmerizing ballet, lay a submerged city, slumbering in the depths. Its spires, once vibrant with life, now shimmered with the ethereal glow of a lost civilization, patiently awaiting the touch of an curious explorer to unearth its watery secrets.

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In the mystical realms of ancient China, where the Great Wall winds through the mountainous landscapes, the imperial dynasties unfurl their scrolls of governance and philosophy. The Forbidden City, with its resplendent architecture and imperial gardens, serves as a backdrop to the millennia-old narrative of Chinese civilization.}Within the mystical realms of ancient China, where the Great Wall winds through the mountainous landscapes, the imperial dynasties unfurl their scrolls of governance and philosophy. The Forbidden City, with its resplendent architecture and imperial gardens, provides as a backdrop to the millennia-old narrative of Chinese civilization.

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Beneath the carnival lights of Luna's Carousel, where laughter mingled with the haunting melodies of a calliope, a mysterious fortune teller named Seraphina read the destinies of those who dared to spin the Wheel of Fates. Little did the carnival-goers know that Seraphina's predictions held the power to reshape the threads of their lives.

History a ih b i k springer pdf__In the Archive of Echoing Whispers, where books not only contained stories but also resonated with the emotions of their readers, a librarian named Seraphina recorded the resonance of each tale. As readers delved into the volumes, their emotions left an imprint on the pages, creating a vibrant library of empathic narratives.