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Healthy Eating for Type 2 Diabetes Springer

This book provides an up-to-date introduction to information theory. In addition to the classical topics discussed, it provides the first comprehensive treatment of the theory of I-Measure, network coding theory, Shannon and non-Shannon type information inequalities, and a relation between entropy and group theory. ITIP, a software package for proving information inequalities, is also included. With a large number of examples, illustrations, and original problems, this book is excellent as a textbook or reference book for a

senior or graduate level course on the subject, as well as a reference for researchers in related fields.

Cosmos & Culture Wiley-Blackwell

This book takes a snapshot of the mathematical foundations of classical and quantum mechanics from a contemporary mathematical viewpoint. It covers a number of important recent developments in dynamical systems and mathematical physics and places them in the framework of the more classical approaches; the presentation is enhanced by many illustrative examples concerning topics which have been of especial interest to workers in the field, and by sketches of the proofs of the major results. The comprehensive bibliographies are designed to permit the interested reader to retrace the major stages in the development of the field if he wishes. Not so much a detailed textbook for plodding students, this volume, like the others in the series, is intended to lead researchers in other

fields and advanced students quickly to an understanding of the 'state of the art' in this area of mathematics. As such it will serve both as a basic reference work on important areas of mathematical physics as they stand today, and as a good starting point for further, more detailed study for people new to this field.

Basic Computer Games McGraw-Hill
Education

"Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and understanding."—S.

Chandrasekhar "A tour de force: lucid, straightforward, mathematically rigorous, exacting in the analysis of the theory in its

physical aspect."—L. P. Hughston, Times Higher Education Supplement "Truly excellent. . . . A sophisticated text of manageable size that will probably be read by every student of relativity, astrophysics, and field theory for years to come."—James W. York, Physics Today
A Joint Meeting of the EUCARPIA Section, Organic and Low-Input Agriculture, ECO-PB, LIVESEED, INSUSFAR, DIVERSify, HealthyMinorCereals, ReMIX, and Wheatamix University of Kassel, 19th–21st February 2018, Witzenhausen, Germany Libertas Press
We are very happy that in this symposium researchers from a multitude of countries around the world are coming together in order to discuss

issues about breeding for intra- and inter-culture? Conversely, how does specific diversity as well for annuals as our knowledge of cultural evolution affect our thinking about possible cultures in the cosmos? Are life, mind, and culture of fundamental significance to the grand story of the cosmos that has generated its own self-understanding through science, rational reasoning, and mathematics? Book includes bibliographical references and an index. *Ballistics* Libertas Press

for perennials. The submitted abstracts show that the activities are far wider than just the cereals that are covered by the EU directive and that there will be a need to expand the activities on the legal side.

Essentials of Strength Training and Conditioning University of

Chicago Press

From GPO Bookstore's Website:

Authors with diverse backgrounds in science, history, anthropology, and more, consider culture in the context of the cosmos. How does our knowledge of cosmic evolution affect terrestrial

evolution affect our thinking about possible cultures in the cosmos? Are life, mind, and culture of fundamental significance to the grand story of the cosmos that has generated its own self-understanding through science, rational reasoning, and mathematics? Book includes bibliographical references and an index.

Ballistics Libertas Press

Cross-border transactions involve a variety of financial operations, including arbitrage, hedging, speculation, financing and

investment. These inter-related operations give rise to foreign exchange exposure and affect the overall financial performance of multinational firms. The book aims to provide an integrated treatment of multinational financial operations, whilst taking into account some real world complexities such as bid/offer spreads, transaction costs, capital rationing, and market imperfections.

Innovation for Development and Deployment of Increasingly Clean Electric Power Technologies CRC Press
BiCMOS Technology and Applications, Second Edition

provides a synthesis of available knowledge about the combination of bipolar and MOS transistors in a common integrated circuit - BiCMOS. In this new edition all chapters have been updated and completely new chapters on emerging topics have been added. In addition, BiCMOS Technology and Applications, Second Edition provides the reader with a knowledge of either CMOS or Bipolar technology/design a reference with which they can make educated decisions regarding the viability of BiCMOS in

their own application. BiCMOS design. This will provide Technology and Applications, advanced students with a good Second Edition is vital understanding of tradeoffs reading for practicing between bipolar and MOS integrated circuit engineers devices and circuits. as well as technical managers Introduction to the Quantum Theory Springer Science & trying to evaluate business Theory Springer Science & issues related to BiCMOS. As a Business Media textbook, this book is also Modernizing Learning: appropriate at the graduate Building the Future Learning level for a special topics Ecosystem is an course in BiCMOS. A general implementation blueprint for knowledge in device physics, connecting learning processing and circuit design experiences across time and is assumed. Given the division space. This co-created plan of the book, it lends itself represents an advancement of well to a two-part course; one how and where learning will occur in the future. on technology and one on

Extensive learning and technological research has been conducted across the myriad disciplines and communities needed to develop this holistic maturation of the learning continuum. These advancements have created the opportunity for formal and informal learning experiences to be accessible anywhere, anytime, and to be personalized to individual needs. However, for full implementation and maximal benefits for learners of all ages and within all communities to be achieved, it is necessary to centralize and coordinate the required connections across technology, learning science, and the greater supporting structures. Accordingly, the ADL Initiative has taken the lead in this coordination process, connecting Government, Military, Academia, Industry, and K-12 teachers, instructors, technologists, researchers, and implementers to create and execute a coordinated transition process. Input was included from stakeholders, communities, and supporting

entities which will be involved in this advancement of the life-long learning ecosystem.

Modernizing Learning Cambridge University Press

Provides fully updated coverage of new experiments in quantum optics This fully revised and expanded edition of a well-established textbook on experiments on quantum optics covers new concepts, results, procedures, and developments in state-of-the-art experiments. It starts with the basic building blocks and ideas of quantum optics, then moves on to detailed procedures and new

techniques for each experiment. Focusing on metrology, communications, and quantum logic, this new edition also places more emphasis on single photon technology and hybrid detection. In addition, it offers end-of-chapter summaries and full problem sets throughout. Beginning with an introduction to the subject, *A Guide to Experiments in Quantum Optics, 3rd Edition* presents readers with chapters on classical models of light, photons, quantum models of light, as well as basic optical components. It goes on to give readers full coverage of lasers

and amplifiers, and examines numerous photodetection techniques being used today. Other chapters examine quantum noise, squeezing experiments, the application of squeezed light, and fundamental tests of quantum mechanics. The book finishes with a section on quantum information before summarizing of the contents and offering an outlook on the future of the field. -Provides all new updates to the field of quantum optics, covering the building blocks, models and concepts, latest results, detailed procedures, and modern experiments -Places emphasis on

three major goals: metrology, communications, and quantum logic -Presents fundamental tests of quantum mechanics (Schrodinger Kitten, multimode entanglement, photon systems as quantum emulators), and introduces the density function -Includes new trends and technologies in quantum optics and photodetection, new results in sensing and metrology, and more coverage of quantum gates and logic, cluster states, waveguides for multimodes, discord and other quantum measures, and quantum control -Offers end of chapter summaries and problem sets as new features

A Guide to Experiments in Quantum Optics, 3rd Edition is an ideal book for professionals, and graduate and upper level students in physics and engineering science.

Microcomputer Edition

Libertas Press

Even the earliest weapon developers faced the need to understand how and why guns and ammunition work in order to improve their effectiveness. As weapons became more sophisticated, the field of ballistics naturally divided into three main areas of specialization:

interior, exterior, and terminal ballistics. Providing unique coverage of all three ar

Symplectic Geometry and its Applications Springer Science & Business Media

Column Generation is an insightful overview of the state of the art in integer programming column generation and its many applications. The volume begins with "A Primer in Column Generation" which outlines the theory and ideas necessary to solve large-scale practical problems, illustrated with a variety of examples. Other chapters follow this introduction on "Shortest Path Problems with

Resource Constraints," "Vehicle Routing Problem with Time Window," "Branch-and-Price Heuristics," "Cutting Stock Problems," each dealing with methodological aspects of the field. Three chapters deal with transportation applications: "Large-scale Models in the Airline Industry," "Robust Inventory Ship Routing by Column Generation," and "Ship Scheduling with Recurring Visits and Visit Separation Requirements." Production is the focus of another three chapters: "Combining Column Generation and Lagrangian Relaxation," "Dantzig-Wolfe Decomposition for Job Shop Scheduling," and "Applying Column Generation to Machine Scheduling." The final chapter by François Vanderbeck, "Implementing Mixed Integer Column Generation," reviews how to set-up the Dantzig-Wolfe reformulation, adapt standard MIP techniques to the column generation context (branching, preprocessing, primal heuristics), and deal with specific column generation issues (initialization, stabilization, column management strategies).

Martingales in Banach Spaces
The Mathematics of Diffusion
A classroom-tested textbook providing a fundamental understanding of basic kinetic processes in materials This textbook, reflecting the hands-on teaching experience of its three authors, evolved from Massachusetts Institute of Technology's first-year graduate

curriculum in the Department of Materials Science and Engineering. It discusses key topics collectively representing the basic kinetic processes that cause changes in the size, shape, composition, and atomic structure of materials. Readers gain a deeper understanding of these kinetic processes and of the properties and applications of materials. Topics are introduced in a logical order, enabling students to develop a solid foundation before advancing to more sophisticated topics. Kinetics of Materials begins with diffusion, offering a description of the elementary manner in which atoms and molecules move around in solids and liquids. Next, the more complex motion of dislocations and interfaces is addressed. Finally, still more complex kinetic phenomena, such as morphological evolution and phase transformations, are treated. Throughout the textbook, readers are instilled with an appreciation of the subject's analytic foundations and, in many cases, the approximations commonly used in the field. The authors offer many extensive derivations of important results to help illuminate their origins. While

the principal focus is on kinetic phenomena in crystalline materials, select phenomena in noncrystalline materials are also discussed. In many cases, the principles involved apply to all materials. Exercises with accompanying solutions are provided throughout *Kinetics of Materials*, enabling readers to put their newfound knowledge into practice. In addition, bibliographies are offered with each chapter, helping readers to investigate specialized topics in greater detail. Several appendices presenting important background material are also included. With its unique range of topics, progressive structure, and extensive exercises, this classroom-tested textbook provides an enriching learning experience for first-year graduate students.

Environmental Biotechnology: Principles and Applications
American Mathematical Soc.
Summary Kafka Streams in Action teaches you everything you need to know to implement stream processing on data flowing into your Kafka platform, allowing you to focus on getting more from your data without sacrificing time or effort.
Foreword by Neha Narkhede, Cocreator of Apache Kafka

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Not all stream-based applications require a dedicated processing cluster. The lightweight Kafka Streams library provides exactly the power and simplicity you need for message handling in microservices and real-time event processing. With the Kafka Streams API, you filter and transform data streams with just Kafka and your application. About the Book Kafka Streams in Action teaches you to implement stream processing within the Kafka platform. In this easy-to-follow book, you'll explore real-world examples to collect, transform, and aggregate data, work with multiple processors, and handle real-time events. You'll even dive into streaming SQL with KSQL! Practical to the very end, it finishes with testing and operational aspects, such as monitoring and debugging. What's inside Using the KStreams API Filtering, transforming, and splitting data Working with the Processor API Integrating with external systems About the Reader Assumes some experience with distributed systems. No knowledge of Kafka

or streaming applications required. About the Author Bill Bejeck is a Kafka Streams contributor and Confluent engineer with over 15 years of software development experience. Table of Contents PART 1 - GETTING STARTED WITH KAFKA STREAMS Welcome to Kafka Streams Kafka quickly PART 2 - KAFKA STREAMS DEVELOPMENT Developing Kafka Streams Streams and state The KTable API The Processor API PART 3 - ADMINISTERING KAFKA STREAMS Monitoring and performance Testing a Kafka Streams application PART 4 - ADVANCED CONCEPTS WITH KAFKA STREAMS Advanced applications

with Kafka Streams APPENDIXES Appendix A - Additional configuration information Appendix B - Exactly once semantics *Symposium on Breeding for Diversification* John Wiley & Sons This book provides a comprehensive and up-to-date introduction to Hodge theory—one of the central and most vibrant areas of contemporary mathematics—from leading specialists on the subject. The topics range from the basic topology of algebraic varieties to the study of variations of mixed Hodge

structure and the Hodge theory of maps. Of particular interest is the study of algebraic cycles, including the Hodge and Bloch-Beilinson Conjectures. Based on lectures delivered at the 2010 Summer School on Hodge Theory at the ICTP in Trieste, Italy, the book is intended for a broad group of students and researchers. The exposition is as accessible as possible and doesn't require a deep background. At the same time, the book presents some topics at the forefront of current research. The book is divided between introductory and advanced lectures. The

introductory lectures address Kähler manifolds, variations of Hodge structure, mixed Hodge structures, the Hodge theory of maps, period domains and period mappings, algebraic cycles (up to and including the Bloch-Beilinson conjecture) and Chow groups, sheaf cohomology, and a new treatment of Grothendieck's algebraic de Rham theorem. The advanced lectures address a Hodge-theoretic perspective on Shimura varieties, the spread philosophy in the study of algebraic cycles, absolute Hodge classes (including a new, self-contained proof of Deligne's theorem on absolute Hodge

cycles), and variation of mixed Hodge structures. The contributors include Patrick Brosnan, James Carlson, Eduardo Cattani, François Charles, Mark Andrea de Cataldo, Fouad El Zein, Mark L. Green, Phillip A. Griffiths, Matt Kerr, Lê Dũng Tráng, Luca Migliorini, Jacob P. Murre, Christian Schnell, and Loring W. Tu.

A First Course in Information

Theory Springer Science & Business Media

The classic first edition, now back in print! Environmental Biotechnology: Principles and Applications is the essential tool for understanding and designing microbiological processes used for

environmental protection and improvement. The book lays a foundation in microbiology and engineering principles and provides comprehensive coverage of all the major environmental applications, from traditional ones like activated sludge and anaerobic digestion to emerging applications like detoxification of hazardous chemical and biofiltration of drinking water. An abundance of worked examples that show in a step-by-step way how the tools are used in analysis and design enrich the discussion. Environmental Biotechnology is the authoritative source for learning how processes in environmental biotechnology work and how to create reliable processes to meet contemporary and

emerging needs. Students, practitioners, and researchers will find this book invaluable. Key features of this first edition include: Consistent backup of the fundamental principles of microbiological processes by their practical applications. Discussion of the traditional applications (e.g., activated sludge and anaerobic digestion) and the emerging applications (e.g., bioremediation and drinking water treatment). Numerous examples illustrating how the design and analysis tools are applied correctly. Each chapter consists of many problems, ranging in scope, that can be assigned as homework, used as supplemental examples in class, or used as study tools.

Abundant use of figures to illustrate concepts.

A Grammar of the Sinhalese Language Createspace

Independent Publishing Platform Remote sensing and geographical information science (GIS) have advanced considerably in recent years. However, the potential of remote sensing and GIS within the environmental sciences is limited by uncertainty, especially in connection with the data sets and methods used. In many studies, the issue of uncertainty has been incompletely addressed. The situation has arisen in part

from a lack of appreciation of uncertainty and the problems it can cause as well as of the techniques that may be used to accommodate it. This book provides general overviews on uncertainty in remote sensing and GIS that illustrate the range of uncertainties that may occur, in addition to describing the means of measuring uncertainty and the impacts of uncertainty on analyses and interpretations made.

Uncertainty in Remote Sensing and GIS provides readers with comprehensive coverage of this largely undocumented subject: * Relevant to a broad variety of

disciplines including geography, environmental science, electrical engineering and statistics * Covers range of material from base overviews to specific applications * Focuses on issues connected with uncertainty at various points along typical data analysis chains used in remote sensing and GIS Written by an international team of researchers drawn from a variety of disciplines, Uncertainty in Remote Sensing and GIS provides focussed discussions on topics of considerable importance to a broad research and user community. The book is

invaluable reading for researchers, advanced students and practitioners who want to understand the nature of uncertainty in remote sensing and GIS, its limitations and methods of accommodating it.

**Clay Mathematics Institute
Workshop on Moduli Spaces of
Vector Bundles, with a View
Towards Coherent Sheaves,
October 6-11, 2006,**

Cambridge, Massachusetts

McGraw Hill Professional

This book provides in-depth coverage of the latest research and development activities concerning

innovative wind energy technologies intended to replace fossil fuels on an economical basis. A characteristic feature of the various conversion concepts discussed is the use of tethered flying devices to substantially reduce the material consumption per installed unit and to access wind energy at higher altitudes, where the wind is more consistent. The introductory chapter describes the emergence and economic dimension of airborne wind energy. Focusing on

"Fundamentals, Modeling & Simulation", Part I includes six contributions that describe quasi-steady as well as dynamic models and simulations of airborne wind energy systems or individual components. Shifting the spotlight to "Control, Optimization & Flight State Measurement", Part II combines one chapter on measurement techniques with five chapters on control of kite and ground stations, and two chapters on optimization. Part III on "Concept Design & Analysis" includes three chapters that present and analyze novel harvesting concepts as well as two chapters on system component design. Part IV, which centers on "Implemented Concepts", presents five chapters on established system concepts and one chapter about a subsystem for automatic launching and landing of kites. In closing, Part V focuses with four chapters on "Technology Deployment" related to market and financing strategies, as well as on regulation and the environment. The book builds on the success of the first

volume "Airborne Wind Energy" (Springer, 2013), and offers a self-contained reference guide for researchers, scientists, professionals and students. The respective chapters were contributed by a broad variety of authors: academics, practicing engineers and inventors, all of whom are experts in their respective fields.

Column Generation Springer

"The lieutenant descended slowly into the quiet and gloom. As he began to step down into the control room, he was gripped by a feeling of dread.

Someone could be down there waiting for him..." Hitler's U-boats rule the North Atlantic and threaten to eliminate the Allied forces supply lines through meticulously coordinated attacks using Germany's secret weapon: the Enigma. Desperate to turn the tide of the war, British scientists at Bletchley Park work tirelessly to break the codes. But there is a problem. They need the German ciphers and a working Enigma machine. In this gripping story held secret for years, you'll join the crew of HMS Bulldog as they execute a covert WWII mission to seize a functioning

Enigma and the ciphers Britain so desperately needs. The bravery of these sailors saved countless lives and crippled German naval operations, eventually giving the Allied forces the victory needed to win the war and end Hitler's reign of terror.

- - **Maps booklet. - 1994. - 15 s.**

: ill John Wiley & Sons
Now in its third edition, Essentials of Strength Training and Conditioning is the most comprehensive reference available for strength and conditioning professionals. In this text, 30 expert contributors explore the scientific principles, concepts, and theories of strength training

and conditioning as well as their applications to athletic performance. Essentials of Strength Training and Conditioning is the most-preferred preparation text for the Certified Strength and Conditioning Specialist (CSCS) exam. The research-based approach, extensive exercise technique section, and unbeatable accuracy of Essentials of Strength Training and Conditioning make it the text readers have come to rely on for CSCS exam preparation. The third edition presents the most current strength training and conditioning research and applications in a logical format designed for increased retention of key concepts. The text is organized into five sections. The first three

sections provide a theoretical framework for application in section 4, the program design portion of the book. The final section offers practical strategies for administration and management of strength and conditioning facilities. -Section 1 (chapters 1 through 10) presents key topics and current research in exercise physiology, biochemistry, anatomy, biomechanics, endocrinology, sport nutrition, and sport psychology and discusses applications for the design of safe and effective strength and conditioning programs. -Section 2 (chapters 11 and 12) discusses testing and evaluation, including the principles of test selection and administration as well as the scoring and interpretation of results. -Section 3 (chapters 13 and 14) provides techniques for warm-up, stretching, and resistance training exercises. For each exercise, accompanying photos and instructions guide readers in the correct execution and teaching of stretching and resistance training exercises. This section also includes a set of eight new dynamic stretching exercises. -Section 4 examines the design of strength training and conditioning programs. The information is divided into three parts: anaerobic exercise prescription (chapters 15 through 17), aerobic endurance exercise prescription (chapter 18), and periodization and rehabilitation (chapters 19 and 20). Step-by-step

guidelines for designing resistance, plyometric, speed, agility, and aerobic endurance training programs are shared. Section 4 also includes detailed descriptions of how principles of program design and periodization can be applied to athletes of various sports and experience levels. Within the text, special sidebars illustrate how program design variables can be applied to help athletes attain specific training goals. -Section 5 (chapters 21 and 22) addresses organization and administration concerns of the strength training and conditioning facility manager, including facility design, scheduling, policies and procedures, maintenance, and risk

management. Chapter objectives, key points, key terms, and self-study questions provide a structure to help readers organize and conceptualize the information. Unique application sidebars demonstrate how scientific facts can be translated into principles that assist athletes in their strength training and conditioning goals. Essentials of Strength Training and Conditioning also offers new lecture preparation materials. A product specific Web site includes new student lab activities that instructors can assign to students. Students can visit this Web site to print the forms and charts for completing lab activities, or they can complete the activities electronically and

email their results to the instructor. The instructor guide provides a course description and schedule, chapter objectives and outlines, chapter-specific Web sites and additional resources, definitions of primary key terms, application questions with recommended answers, and links to the lab activities. The presentation package and image bank, delivered in Microsoft PowerPoint, offers instructors a presentation package containing over 1,000 slides to help augment lectures and class discussions. In addition to outlines and key points, the resource also contains over 450 figures, tables, and photos from the textbook, which can be used as an image bank by

instructors who need to customize their own presentations. Easy-to-follow instructions help guide instructors on how to reuse the images within their own PowerPoint templates. These tools can be downloaded online and are free to instructors who adopt the text for use in their courses. Essentials of Strength Training and Conditioning, Third Edition, provides the latest and most comprehensive information on the structure and function of body systems, training adaptations, testing and evaluation, exercise techniques, program design, and organization and administration of facilities. Its accuracy and reliability make it not only the leading preparation resource for the CSCS exam but also the

definitive reference that strength and conditioning professionals and sports medicine specialists depend on to fine-tune their practice.

National Water Summary Springer

Lie group analysis, based on symmetry and invariance principles, is the only systematic method for solving nonlinear differential equations analytically. One of Lie's striking achievements was the discovery that the majority of classical devices for integration of special types of ordinary differential equations could be explained and deduced by his theory. Moreover, this theory provides a universal tool for tackling considerable numbers of differential equations when other

means of integration fail. * This is the first modern text on ordinary differential equations where the basic integration methods are derived from Lie group theory * Includes a concise and self contained introduction to differential equations * Easy to follow and comprehensive introduction to Lie group analysis * The methods described in this book have many applications The author provides students and their teachers with a flexible text for undergraduate and postgraduate courses, spanning a variety of topics from the basic theory through to its many applications. The philosophy of Lie groups has become an essential part of the mathematical culture for anyone

investigating mathematical models
of physical, engineering and
natural problems.