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Mastering QuickBooks 2021 Crystallynn Shelton 2021-01-15 This second edition of the bestselling Mastering QuickBooks 2020 is updated and improved to focus on advanced QBO features, techniques for managing sales taxes, and budgeting and reporting best practices Key Features Understand how to manage sales taxes and transactions Explore advanced bookkeeping techniques such as using the custom chart builder, importing budgets, and performing smart reporting with Fathom Become proficient in using QuickBooks Online and implement best practices to avoid costly errors Book Description Intuit QuickBooks is an accounting software package that helps small business owners to manage all their bookkeeping tasks independently. This latest edition of Mastering QuickBooks takes you through the range of new features and updates available in QuickBooks Online (QBO). Creating multilingual invoices, tracking mileage, working with a cash flow dashboard that helps you with cash forecasting and planning reports, and uploading a batch of bills and checks are just a few of the new features covered in this edition. As you progress, you'll learn how to manage sales tax, including how to set up, collect, track, pay, and report sales tax payments. Dedicated sections will also take you through new content focused on the latest features in the QBO line-up, while also showing you the different types of businesses that can benefit from QBO Advanced. In addition to this, you'll explore how to export reports to Google Sheets, use the custom chart builder, import budgets, perform smart reporting with Fathom, and much more. By the end of this QuickBooks book, you'll be well-versed with the features of QuickBooks and have the confidence to manage all your bookkeeping tasks with ease. What you will learn Discover the new features of QBO and find out what the QBO line-up offers Get to grips with bookkeeping concepts and the typical bookkeeping and financial accounting cycle Set up QuickBooks for both product-based and service-based businesses Track everything from billable and non-billable time and expenses to profit Generate key financial reports for accounts, customers, jobs, and invoice items Understand the complete QuickBooks payroll process and track payments made to 1099 contractors Manage various bank and credit accounts linked to your business Who this book is for The book is for small business owners and bookkeepers or accounting students who want to learn QuickBooks Online and understand how to implement and use it effectively. Whether you're a bookkeeping beginner or have some experience already, this book will help you learn to use Intuit QuickBooks Online confidently.

High-Voltage Test and Measuring Techniques Wolfgang Hauschild 2018-09-22 The new edition of this book incorporates the recent remarkable changes in electric power generation, transmission and distribution. The consequences of the latest development to High Voltage (HV) test and measuring techniques result in new chapters on Partial Discharge measurements, Measurements of Dielectric Properties, and some new thoughts on the Shannon Theorem and Impuls current measurements. This

standard reference of the international high-voltage community combines high voltage engineering with HV testing techniques and HV measuring methods. Based on long-term experience gained by the authors the book reflects the state of the art as well as the future trends in testing and diagnostics of HV equipment. It ensures a reliable generation, transmission and distribution of electrical energy. The book is intended not only for experts but also for students in electrical engineering and high-voltage engineering.

Rice C. Wayne Smith 2002-09-09 Thorough coverage of rice, from cultivar development to marketing Rice: Evolution, History, Production, and Technology, the third book in the Wiley Series in Crop Science, provides unique, single-source coverage of rice, from cultivar development techniques and soil characteristics to harvesting, storage, and germplasm resources. Rice covers the plant's origins and history, physiology and genetics, production and production hazards, harvesting, processing, and products. Comprehensive coverage includes: * Color plates of diseases, insects, and other production hazards * The latest information on pest control * Up-to-date material on marketing * A worldwide perspective of the rice industry Rice provides detailed information in an easy-to-use format, making it valuable to scientists and researchers as well as growers, processors, and grain merchants and shippers.

Modelling Nutrient Digestion and Utilisation in Farm Animals D. Sauvant 2011-05-02 For more than 30 years, modelling has been an important method for integrating, in a flexible, comprehensive and widely applicable way, basic knowledge and biological concepts on digestion and metabolism in farm animals. The purpose of this book is to present the 'state of art' in this area. The chapters are written by leading teams and researchers in this field of study, mainly from Europe, North America and Australasia. Considerable progress has been made in topics dealing with: modelling methods, feeding behaviour, digestion and metabolic processes in ruminants and monogastric animals. This progress is clearly illustrated by the emergence of a new paradigm in animal nutrition, which has moved from the aim to cover the requirements of the animal to explaining and predicting the responses of the animals to diets (e.g., productivity and efficiency, impact on quality of products, environmental aspects, health and well-being). In this book several chapters illustrate that through empirical models, meta-analysis is an efficient tool to synthesize information gathered over recent decades. In addition, compared with other books on modelling farm animal nutrition, two new aspects received particular attention: expanding knowledge of the individual animal to understanding the functioning and management of herds, and the consideration of the environmental impact of animal production. This book is a valuable source of information for researchers, nutritionists, advisors, and graduate students who want to have up-to-date and concise information on mathematical modelling applied to farm animals.

Crystallographic Texture of Materials Satyam Suwas 2016-09-10 Providing a comprehensive and invaluable overview of the basics of crystallographic textures and their industrial applications, this book covers a broad range of both structural and functional materials. It introduces the existing methods of representation in an accessible manner and presents a thorough overview of existing knowledge on texture of metallic materials. Texture analysis has widespread use in many industries, and provides crucial input towards the development of new materials and products. There has been rapid growth in the science and art of texture analysis in the last few decades. Other topics addressed within this book include recent research on texture in thin films and non-metals, and the dependence of material properties on texture, and texture control in some engineering materials. This book constitutes an invaluable reference text for researchers and professionals working on texture analysis in metallurgy, materials science and engineering, physics and geology. By using content selectively, it is also highly accessible to undergraduate students.

Cavity Optomechanics Markus Aspelmeyer 2014-07-05 During the last few years cavity-optomechanics has emerged as a new field of research. This highly interdisciplinary field studies the interaction between micro and nano mechanical systems and light. Possible applications range from novel high-bandwidth mechanical sensing devices through the generation of squeezed optical or mechanical states to even tests of quantum theory itself. This is one of the first books in this relatively young field. It is aimed at scientists, engineers and students who want to obtain a concise introduction to the state of the art in the field of cavity optomechanics. It is valuable to researchers in nano science, quantum optics, quantum information, gravitational wave detection and other cutting edge fields. Possible applications include biological sensing, frequency comb applications, silicon photonics etc. The technical content will be accessible to those who have familiarity with basic undergraduate physics.

Inflammatory Bowel Disease Ramona Rajapakse 2021-09-23 This book uses new thinking on precision medicine and the interplay of genetic factors, the microbiome, and external triggers to build on the core concepts of inflammatory bowel disease. It outlines the latest findings in targeting therapies to the individual patient with Crohn's and colitis, management of chronic infections in the setting of immunomodulators and biologics, non-surgical therapy of dysplasia in colitis patients, and redefining and structuring the problematic pouch. In addition, this book features useful chapters dedicated to the economic aspects of IBD in an increasingly constrained healthcare system, as well as the patient experience and the role of subspecialist telemedicine care. Written by specialists and thought leaders in the field, *Inflammatory Bowel Disease: Pathogenesis, Diagnosis and Management* provides a concise but highly relevant account of the latest thinking and concepts in IBD.

Associate Bookkeeper National Learning Corporation 2012 The Associate Bookkeeper Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam.

Non-LTE Radiative Transfer in the Atmosphere Manuel López-Puertas 2001 Ch. 1. Introduction and overview. 1.1. General introduction. 1.2. Basic properties of the Earth's atmosphere. 1.3. What is LTE? 1.4. Non-LTE situations. 1.5. The importance of non-LTE. 1.6. Some historical background. 1.7. Non-LTE models. 1.8. Experimental studies of non-LTE. 1.9. Non-LTE in planetary atmospheres. 1.10. References and further reading -- ch. 2. Molecular spectra. 2.1. Introduction. 2.2. Energy levels in diatomic molecules. 2.3. Energy levels in polyatomic molecules. 2.4. Transitions and spectral bands. 2.5. Properties of individual vibration-rotation lines. 2.6. Interactions between energy levels. 2.7. References and further reading -- ch. 3. Basic atmospheric radiative transfer. 3.1. Introduction. 3.2. Properties of radiation. 3.3. The radiative transfer equation. 3.4. The formal solution of the radiative transfer equation. 3.5. Thermodynamic equilibrium and local thermodynamic equilibrium. 3.6. The source function in non-LTE. 3.7. Non-LTE situations. 3.8. References and further reading -- ch. 4. Solutions to the radiative transfer equation in LTE. 4.1. Introduction. 4.2. Integration of the radiative transfer equation over height. 4.3. Integration of the radiative transfer equation over frequency. 4.4. Integration of the radiative transfer equation over solid angle. 4.5. References and further reading -- ch. 5. Solutions to the radiative transfer equation in non-LTE. 5.1. Introduction. 5.2. Simple solutions for radiative transfer under non-LTE. 5.3. The full solution of the radiative transfer equation in non-LTE. 5.4. Integration of the RTE in non-LTE. 5.5. Intercomparison of non-LTE codes. 5.6. Parameterizations of the non-LTE cooling rate. 5.7. The Curtis matrix method. 5.8. References and further reading -- ch. 6. Non-LTE modelling of the Earth's atmosphere I: CO₂. 6.1. Introduction. 6.2. Useful approximations. 6.3. Carbon dioxide, CO₂. 6.4. References and further reading -- ch. 7. Non-LTE modelling of the Earth's atmosphere II: Other infrared emitters. 7.1. Introduction. 7.2. Carbon monoxide, CO. 7.3. Ozone, O₃.

7.4. Water vapour, H₂O. 7.5. Methane, CH₄. 7.6. Nitric oxide, NO. 7.7. Nitrogen dioxide, NO₂. 7.8. Nitrous oxide, N₂O. 7.9. Nitric acid, HNO₃. 7.10. Hydroxyl radical, OH. 7.11. Molecular oxygen atmospheric infrared bands. 7.12. Hydrogen chloride, HCl, and hydrogen fluoride, HF. 7.13. NO⁺. 7.14. Atomic Oxygen, O (3P), at 63[symbol]m. 7.15. References and further reading -- ch. 8. Remote sensing of the non-LTE atmosphere. 8.1. Introduction. 8.2. The analysis of emission measurements. 8.3. Observations of carbon dioxide in emission. 8.4. Observations of ozone in emission. 8.5. Observations of water vapour in emission. 8.6. Observations of carbon monoxide in emission. 8.7. Observations of nitric oxide in emission. 8.8. Observations of other infrared emissions. 8.9. Rotational non-LTE. 8.10. Absorption measurements. 8.11. Simulated limb emission spectra at high resolution. 8.12. Simulated Nadir emission spectra at high resolution. 8.13. Non-LTE retrieval schemes. 8.14. References and further reading -- ch. 9. Cooling and heating rates. 9.1. Introduction. 9.2. CO₂ 15 f[symbol]m cooling. 9.3. O₃ 9.6[symbol]xm cooling. 9.4. H₂O 6.3[symbol]m cooling. 9.5. NO 5.3[symbol]m cooling. 9.6. O(3Pi) 63[symbol]m cooling. 9.7. Summary of cooling rates. 9.8. CO₂ solar heating. 9.9. References and further reading -- ch. 10. Non-LTE in planetary atmospheres. 10.1. Introduction. 10.2. The terrestrial planets: Mars and Venus. 10.3. A non-LTE model for the Martian and Venusian atmospheres. 10.4. Mars. 10.5. Venus. 10.6. Outer planets. 10.7. Titan. 10.8. Comets. 10.9. References and further reading.

Draw Your World Samantha Dion Baker 2021-06-22 See the world around you in a whole new way with this inspiring guide to nature drawing, urban sketching, travel drawing, drawing from memory or photos, and sketch journaling. In Draw Your World, Samantha Dion Baker gives you everything you need to begin a new art practice or enliven an existing one. She shares her favorite tools and materials, simple technical lessons such as composition, shadows and light, symmetry, and perspective, plus fun motivational exercises like drawing from memory, urban sketching, travel journaling, and experimental art. With helpful step-by-steps and stunning visual examples from Baker's own work, Draw Your World will help you hone your skills and capture the details of your unique and remarkable life in a sketch journal or as finished artwork.

Lone Parenthood in the Life Course Laura Bernardi 2017-11-08 Lone parenthood is an increasing reality in the 21st century, reinforced by the diffusion of divorce and separation. This volume provides a comprehensive portrait of lone parenthood at the beginning of the XXI century from a life course perspective. The contributions included in this volume examine the dynamics of lone parenthood in the life course and explore the trajectories of lone parents in terms of income, poverty, labour, market behaviour, wellbeing, and health. Throughout, comparative analyses of data from countries as France, the United Kingdom, Ireland, Germany, Belgium, Sweden, Switzerland, Hungary, and Australia help portray how lone parenthood varies between regions, cultures, generations, and institutional settings. The findings show that one-parent households are inhabited by a rather heterogeneous world of mothers and fathers facing different challenges. Readers will not only discover the demographics and diversity of lone parents, but also the variety of social representations and discourses about the changing phenomenon of lone parenthood. The book provides a mixture of qualitative and quantitative studies on lone parenthood. Using large scale and longitudinal panel and register data, the reader will gain insight in complex processes across time. More qualitative case studies on the other hand discuss the definition of lone parenthood, the public debate around it, and the social and subjective representations of lone parents themselves. This book aims at sociologists, demographers, psychologists, political scientists, family therapists, and policy makers who want to gain new insights into one of the most striking changes in family forms over the last 50 years. This book is open access under a CC BY License.

Genetic Data Analysis for Plant and Animal Breeding Fikret Isik 2017-09-09 This book fills the gap

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between textbooks of quantitative genetic theory, and software manuals that provide details on analytical methods but little context or perspective on which methods may be most appropriate for a particular application. Accordingly this book is composed of two sections. The first section (Chapters 1 to 8) covers topics of classical phenotypic data analysis for prediction of breeding values in animal and plant breeding programs. In the second section (Chapters 9 to 13) we provide the concept and overall review of available tools for using DNA markers for predictions of genetic merits in breeding populations. With advances in DNA sequencing technologies, genomic data, especially single nucleotide polymorphism (SNP) markers, have become available for animal and plant breeding programs in recent years. Analysis of DNA markers for prediction of genetic merit is a relatively new and active research area. The algorithms and software to implement these algorithms are changing rapidly. This section represents state-of-the-art knowledge on the tools and technologies available for genetic analysis of plants and animals. However, readers should be aware that the methods or statistical packages covered here may not be available or they might be out of date in a few years. Ultimately the book is intended for professional breeders interested in utilizing these tools and approaches in their breeding programs. Lastly, we anticipate the usage of this volume for advanced level graduate courses in agricultural and breeding courses.

Heat Transfer in Polymer Composite Materials Nicolas Boyard 2016-03-28 This book addresses general information, good practices and examples about thermo-physical properties, thermo-kinetic and thermo-mechanical couplings, instrumentation in thermal science, thermal optimization and infrared radiation.

Quantum of Nightmares Charles Stross 2022-01-11 A unique blend of espionage thrills and Lovecraftian horror, Hugo Award-winning author Charles Stross's Laundry Files continues with Quantum of Nightmares. It's a brave new Britain under the New Management. The avuncular Prime Minister is an ancient eldritch god of unimaginable power. Crime is plummeting as almost every offense is punishable by death. And everywhere you look, there are people with strange powers, some of which they can control, and some, not so much. Hyperorganized and formidable, Eve Starkey defeated her boss, the louche magical adept and billionaire Rupert de Montfort Bigge, in a supernatural duel to the death. Now she's in charge of the Bigge Corporation—just in time to discover the lethal trap Rupert set for her long ago. Wendy Deere's transhuman abilities have gotten her through many a scrape. Now she's gainfully employed investigating unauthorized supernatural shenanigans. She swore to herself she wouldn't again get entangled with Eve Starkey's bohemian brother Imp and his crew of transhuman misfits. Yeah, right. Mary Macandless has powers of her own. Right now she's pretending to be a nanny in order to kidnap the children of a pair of famous, Government-authorized superheroes. These children have powers of their own, and Mary Macandless is in way over her head. Amanda Sullivan is the HR manager of a minor grocery chain, much oppressed by her glossy blonde boss—who is cooking up an appalling, extralegal scheme literally involving human flesh. All of these stories will come together, with world-bending results... "For all of Stross's genuine ability to spook and dismay, The Laundry Files are some of the most tremendously humane books I've ever read." —Tamsyn Muir, author of Gideon the Ninth and Harrow the Ninth At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Outdoor Environmental Education in Higher Education Glyn Thomas 2021 This book brings together an international group of authors to discuss the outdoor environmental education (OEE) theory and practice that educators can use to support teaching and learning in higher education. The book contents are organised around a recently established list of threshold concepts that can be used to describe the knowledge and skills that university students would develop if they complete a major in outdoor education. There are six key sections: the theoretical foundations and philosophies of OEE; the

pedagogical approaches and issues involved in teaching OEE; the ways in which OEE is a social, cultural and environmental endeavour; how outdoor educators can advocate for social justice; key approaches to safety management; and the need for on-going professional practice. The threshold concepts that form the premise of the book describe outdoor educators as creating opportunities for experiential learning using pedagogies that align their programme's purpose and practice. Outdoor educators are place-responsive, and see their work as a social, cultural and environmental endeavour. They advocate for social and environmental justice, and they understand and apply safety principles and routinely engage in reflective practice. This book will provide clarity and direction for emerging and established outdoor educators around the world and will also be relevant to students and professionals working in related fields such as environmental education, adventure therapy, and outdoor recreation.

The QuickStudy Guide for Sage ACT! Susan Clark 2010-09-01

Brownian Motion Albert P. Philipse 2018-09-24 This textbook is an introduction to the Brownian motion of colloids and nano-particles, and the diffusion of molecules. One very appealing aspect of Brownian motion, as this book illustrates, is that the subject connects a broad variety of topics, including thermal physics, hydrodynamics, reaction kinetics, fluctuation phenomena, statistical thermodynamics, osmosis and colloid science. The book is based on a set of lecture notes that the authors used for an undergraduate course at the University of Utrecht, Netherland. It aims to provide more than a simplified qualitative description of the subject, without getting bogged down in difficult mathematics. Each chapter contains exercises, ranging from straightforward ones to more involved problems, addressing instances from (thermal motion in) chemistry, physics and life sciences. Exercises also deal with derivations or calculations that are skipped in the main text. The book offers a treatment of Brownian motion on a level appropriate for bachelor/undergraduate students of physics, chemistry, soft matter and the life sciences. PhD students attending courses and doing research in colloid science or soft matter will also benefit from this book.

Redesigning America's Community Colleges Thomas R. Bailey 2015-04-09 Community colleges enroll half of the nation's undergraduates. Yet only 40 percent of entrants complete an undergraduate degree in six years. Redesigning America's Community Colleges explains how two-year colleges can increase their students' success rate quickly and at less cost, through a program of guided pathways to completion.

Sage 50 Payroll 2016 in easy steps Bill Mantovani 2016-11-24 Updated for Sage 50 Payroll for the 2016/17 payroll year, this definitive guide clarifies everything from creating basic employee records, government legislation settings and paying your employees to utilising Sage Payroll as an information-bank for recording deductions, absences, and holidays. Areas covered include: getting started quickly using set-up wizards configuring company settings keeping up-to-date and compliant with the latest payroll and pension legislation payroll security to control access managing your employees processing and producing payslips NIC, car fuel, loans and other deductions holidays, SMP, SSP and different absence types running Year End procedures making online HMRC submissions generating invaluable management reports working with payroll for small businesses using Cloud-based Sage One Payroll Sage 50 Payroll 2016 in easy steps is ideal for anyone needing to quickly grasp the essentials of running a Sage 50 payroll system, whether for the first time or needing to learn the new key features. The Sage Payroll range includes: Desktop software Sage 50 Payroll 2016 (single user, single company) Sage 50 Payroll 2016 Professional (multi-user, multi-company) Cloud Based Online Software Sage One Payroll (1-15 employees)

Beginning R Larry Pace 2015-10-23 *Beginning R, Second Edition* is a hands-on book showing how to use the R language, write and save R scripts, read in data files, and write custom statistical functions as well as use built in functions. This book shows the use of R in specific cases such as one-way ANOVA analysis, linear and logistic regression, data visualization, parallel processing, bootstrapping, and more. It takes a hands-on, example-based approach incorporating best practices with clear explanations of the statistics being done. It has been completely re-written since the first edition to make use of the latest packages and features in R version 3. R is a powerful open-source language and programming environment for statistics and has become the de facto standard for doing, teaching, and learning computational statistics. R is both an object-oriented language and a functional language that is easy to learn, easy to use, and completely free. A large community of dedicated R users and programmers provides an excellent source of R code, functions, and data sets, with a constantly evolving ecosystem of packages providing new functionality for data analysis. R has also become popular in commercial use at companies such as Microsoft, Google, and Oracle. Your investment in learning R is sure to pay off in the long term as R continues to grow into the go to language for data analysis and research. What You Will Learn: How to acquire and install R Hot to import and export data and scripts How to analyze data and generate graphics How to program in R to write custom functions Hot to use R for interactive statistical explorations How to conduct bootstrapping and other advanced techniques

Digital Health Homero Rivas 2018-01-02 This book presents a comprehensive state-of-the-art approach to digital health technologies and practices within the broad confines of healthcare practices. It provides a canvas to discuss emerging digital health solutions, propelled by the ubiquitous availability of miniaturized, personalized devices and affordable, easy to use wearable sensors, and innovative technologies like 3D printing, virtual and augmented reality and driverless robots and vehicles including drones. One of the most significant promises the digital health solutions hold is to keep us healthier for longer, even with limited resources, while truly scaling the delivery of healthcare. *Digital Health: Scaling Healthcare to the World* addresses the emerging trends and enabling technologies contributing to technological advances in healthcare practice in the 21st Century. These areas include generic topics such as mobile health and telemedicine, as well as specific concepts such as social media for health, wearables and quantified-self trends. Also covered are the psychological models leveraged in design of solutions to persuade us to follow some recommended actions, then the design and educational facets of the proposed innovations, as well as ethics, privacy, security, and liability aspects influencing its acceptance. Furthermore, sections on economic aspects of the proposed innovations are included, analyzing the potential business models and entrepreneurship opportunities in the domain.

Strategies for Profiting with Japanese Candlestick Charts Steve Nison 2012-10-15 From the introductory concepts through sophisticated applications—the most thorough, authoritative guide to harnessing the power of Japanese candlesticks The book that introduced traders everywhere how to unleash the awesome power of Japanese Candlestick is now better than ever! Written by the visionary who introduced candlesticks to traders in the West, this new edition of the international bestseller has been fully updated and revised for today's more competitive and fickle markets. Your complete guide to all things candlesticks, it fills you in on what they are and where they come from, how to read and interpret them and how to use them to anticipate and capitalize on price moves and market changes with a degree of accuracy you never imagined was possible! A rare opportunity to learn about this powerful charting technique from the man who introduced candlesticks to the West and the world's premiere expert Covers the most important candle patterns and breaks each down into its component parts with crystal clear explanations of what each part indicates Details strategies for combining candlesticks with other technical tools to spot big moves and find optimal exits Delivers expert advice and guidance on how to avoid costly candlestick mistakes that even seasoned traders can make Shares

proven strategies for using candlesticks for hedging and managing investment risk, along with techniques for making candlesticks a valued tool for swing and day trading

QuickBooks 2016 Bonnie Biafore 2015 Offers step-by-step instructions on basic bookkeeping and accounting, and how and when to use specific QuickBooks features. Includes how to set up accounts, track billable time and examine budgets.

Mathematical Visualization H.-C. Hege 2013-03-09 Mathematical Visualization is a young new discipline. It offers efficient visualization tools to the classical subjects of mathematics, and applies mathematical techniques to problems in computer graphics and scientific visualization. Originally, it started in the interdisciplinary area of differential geometry, numerical mathematics, and computer graphics. In recent years, the methods developed have found important applications. The current volume is the quintessence of an international workshop in September 1997 in Berlin, focusing on recent developments in this emerging area. Experts present selected research work on new algorithms for visualization problems, describe the application and experiments in geometry, and develop new numerical or computer graphical techniques.

Stocks, Bonds, Bills, and Inflation Roger G. Ibbotson 1989

Frequent Pattern Mining Charu C. Aggarwal 2014-08-29 This comprehensive reference consists of 18 chapters from prominent researchers in the field. Each chapter is self-contained, and synthesizes one aspect of frequent pattern mining. An emphasis is placed on simplifying the content, so that students and practitioners can benefit from the book. Each chapter contains a survey describing key research on the topic, a case study and future directions. Key topics include: Pattern Growth Methods, Frequent Pattern Mining in Data Streams, Mining Graph Patterns, Big Data Frequent Pattern Mining, Algorithms for Data Clustering and more. Advanced-level students in computer science, researchers and practitioners from industry will find this book an invaluable reference.

Architects' Data Ernst Neufert 1991-01-15 This is an essential aid in the initial design and planning of a project. The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international in origin and include both well known and less famous designers. Architects Data is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

Perspectives on Paul Scot McKnight 2020-10-27 This five-views work brings together an all-star lineup of Pauline scholars to offer a constructive, interdenominational, up-to-date conversation on key issues of Pauline theology. The editors begin with an informative recent history of biblical tradition related to the perspectives on Paul. John M. G. Barclay, A. Andrew Das, James D. G. Dunn, Brant Pitre,

and Magnus Zetterholm then discuss how to interpret Paul's writings and theology, especially the apostle's view of salvation. The book concludes with an assessment of the perspectives from a pastoral point of view by Dennis R. Edwards.

The Art of Modeling Mechanical Systems Friedrich Pfeiffer 2016-09-14 The papers in this volume present rules for mechanical models in a general systematic way, always in combination with small and large examples, many from industry, illustrating the most important features of modeling. The best way to reach a good solution is discussed. The papers address researchers and engineers from academia and from industry, doctoral students and postdocs, working in the fields of mechanical, civil and electrical engineering as well as in fields like applied physics or applied mathematics.

Epigenetics of Aging and Longevity Alexey Moskalev 2017-11-17 Epigenetics of Aging and Longevity provides an in-depth analysis of the epigenetic nature of aging and the role of epigenetic factors in mediating the link between early-life experiences and life-course health and aging. Chapters from leading international contributors explore the effect of adverse conditions in early-life that may result in disrupted epigenetic pathways, as well as the potential to correct these disrupted pathways via targeted therapeutic interventions. Intergenerational epigenetic inheritance, epigenetic drug discovery, and the role of epigenetic mechanisms in regulating specific age-associated illnesses—including cancer and cardiovascular, metabolic, and neurodegenerative diseases—are explored in detail. This book will help researchers in genomic medicine, epigenetics, and biogerontology better understand the epigenetic determinants of aging and longevity, and ultimately aid in developing therapeutics to extend the human life-span and treat age-related disease. Offers a comprehensive overview of the epigenetic nature of aging, as well as the impact of epigenetic factors on longevity and regulating age-related disease Provides readers with clinical and epidemiological evidence for the role of epigenetic mechanisms in mediating the link between early-life experiences, life-course health and aging trajectory Applies current knowledge of epigenetic regulatory pathways towards developing therapeutic interventions for age-related diseases and extending the human lifespan

Hereditary Colorectal Cancer Laura Valle 2018-05-04 This book provides information on a wide variety of issues ranging from genetics to clinical description of the syndromes, genetic testing and counseling, and clinical management including surveillance, surgical and prophylactic interventions, and chemoprevention. Moreover, current hot issues, such as the identification of novel causal genes and the challenges we face, and the relevance of cancer risk modifiers, both genetic and environmental, are also discussed. This reference book is great for geneticists, oncologists, genetic counselors, researchers, clinicians, surgeons and nurses dedicated to, or interested in, hereditary cancer. The best and most recognized experts in the field have contributed to this project, guaranteeing updated information, accuracy and the discussion of topical issues.

Inertial Electrostatic Confinement (IEC) Fusion George H. Miley 2013-12-12 This book provides readers with an introductory understanding of Inertial Electrostatic Confinement (IEC), a type of fusion meant to retain plasma using an electrostatic field. IEC provides a unique approach for plasma confinement, as it offers a number of spin-off applications, such as a small neutron source for Neutron Activity Analysis (NAA), that all work towards creating fusion power. The IEC has been identified in recent times as an ideal fusion power unit because of its ability to burn aneutronic fuels like p-B11 as a result of its non-Maxwellian plasma dominated by beam-like ions. This type of fusion also takes place in a simple mechanical structure small in size, which also contributes to its viability as a source of power. This book posits that the ability to study the physics of IEC in very small volume plasmas makes it possible to rapidly investigate a design to create a power-producing device on a much larger scale.

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Along with this hypothesis the book also includes a conceptual experiment proposed for demonstrating breakeven conditions for using p-B11 in a hydrogen plasma simulation. This book also: Offers an in-depth look, from introductory basics to experimental simulation, of Inertial Electrostatic Confinement, an emerging method for generating fusion power Discusses how the Inertial Electrostatic Confinement method can be applied to other applications besides fusion through theoretical experiments in the text Details the study of the physics of Inertial Electrostatic Confinement in small-volume plasmas and suggests that their rapid reproduction could lead to the creation of a large-scale power-producing device Perfect for researchers and students working with nuclear fusion, Inertial Electrostatic Confinement (IEC) Fusion: Fundamentals and Applications also offers the current experimental status of IEC research, details supporting theories in the field and introduces other potential applications that stem from IEC.

Analytic Combinatorics in Several Variables Robin Pemantle 2013-05-31 This book is the result of nearly fifteen years of work on developing analytic machinery to recover, as effectively as possible, asymptotics of the coefficients of a multivariate generating function. It is the first book to describe many of the results and techniques necessary to estimate coefficients of generating functions in more than one variable.

Towards Bayesian Model-Based Demography Jakub Bijak 2022 This open access book presents a ground-breaking approach to developing micro-foundations for demography and migration studies. It offers a unique and novel methodology for creating empirically grounded agent-based models of international migration - one of the most uncertain population processes and a top-priority policy area. The book discusses in detail the process of building a simulation model of migration, based on a population of intelligent, cognitive agents, their networks and institutions, all interacting with one another. The proposed model-based approach integrates behavioural and social theory with formal modelling, by embedding the interdisciplinary modelling process within a wider inductive framework based on the Bayesian statistical reasoning. Principles of uncertainty quantification are used to devise innovative computer-based simulations, and to learn about modelling the simulated individuals and the way they make decisions. The identified knowledge gaps are subsequently filled with information from dedicated laboratory experiments on cognitive aspects of human decision-making under uncertainty. In this way, the models are built iteratively, from the bottom up, filling an important epistemological gap in migration studies, and social sciences more broadly.

Ultimate Visual Dictionary Dorling Kindersley Publishing Staff 2017-01-17 Ultimate Visual Dictionary is a comprehensive, annotated visual dictionary of more than 33,000 commonly researched places and things, from the origins of the universe to modern technology. Organized into 14 major sections including Animals, Rail and Road, Music, and more, each has its own table of contents, enabling readers to find a pictorial definition of an object without necessarily knowing its name in advance. Can't remember the name of a kangaroo's pouch? Just flip to the "Marsupials & Monotremes" spread in Ultimate Visual Dictionary and find out. Or, turn the pages to discover the different components of the human body, identify the parts of a tractor, or figure out tricky sports terms. Stunning color photography and detailed cutaway illustrations bring complex subjects to life, alongside straightforward explanations of basic principles and ideas. With this revised edition of DK's Ultimate Visual Dictionary, readers will never again be at a loss for words.

Quickbooks 2010 Axzo Press 2010-03-26 This ILT Series course covers the fundamentals of using QuickBooks 2010 to track the finances of a small business. Students will learn how to set up a new company, manage bank account transactions, maintain customer, job, and vendor information, manage

inventory, generate reports, and use the Company Snapshot window. Students will also create invoices and credit memos, write and print checks, add custom fields, set up budgets, and learn how to protect and back up their data.

The CDC Field Epidemiology Manual Centers for Disease Control and Prevention (CDC) 2018-11-20 A NEW AND ESSENTIAL RESOURCE FOR THE PRACTICE OF EPIDEMIOLOGY AND PUBLIC HEALTH
The CDC Field Epidemiology Manual is a definitive guide to investigating acute public health events on the ground and in real time. Assembled and written by experts from the Centers for Disease Control and Prevention as well as other leading public health agencies, it offers current and field-tested guidance for every stage of an outbreak investigation -- from identification to intervention and other core considerations along the way. Modeled after Michael Gregg's seminal book *Field Epidemiology*, this CDC manual ushers investigators through the core elements of field work, including many of the challenges inherent to outbreaks: working with multiple state and federal agencies or multinational organizations; legal considerations; and effective utilization of an incident-management approach. Additional coverage includes: · Updated guidance for new tools in field investigations, including the latest technologies for data collection and incorporating data from geographic information systems (GIS) · Tips for investigations in unique settings, including healthcare and community-congregate sites · Advice for responding to different types of outbreaks, including acute enteric disease; suspected biologic or toxic agents; and outbreaks of violence, suicide, and other forms of injury For the ever-changing public health landscape, The CDC Field Epidemiology Manual offers a new, authoritative resource for effective outbreak response to acute and emerging threats. *** Oxford University Press will donate a portion of the proceeds from this book to the CDC Foundation, an independent nonprofit and the sole entity created by Congress to mobilize philanthropic and private-sector resources to support the Centers for Disease Control and Prevention's critical health protection work. To learn more about the CDC Foundation, visit www.cdcfoundation.org.

Applied Probability and Statistics Mario Lefebvre 2007-04-03 This book moves systematically through the topic of applied probability from an introductory chapter to such topics as random variables and vectors, stochastic processes, estimation, testing and regression. The topics are well chosen and the presentation is enriched by many examples from real life. Each chapter concludes with many original, solved and unsolved problems and hundreds of multiple choice questions, enabling those unfamiliar with the topics to master them. Additionally appealing are historical notes on the mathematicians mentioned throughout, and a useful bibliography. A distinguishing character of the book is its thorough and succinct handling of the varied topics.

Get Started in Sage 50 Peter MacBride 2010-09-24 Get Started in Sage Line 50 introduces the principles behind the system - because if you understand how a system works, you will master it more quickly and be better equipped to sort out any problems later- and demonstrates how to use the various modules and facilities, for day-to-day accounting, for end-of-period summaries and reports and for trouble-shooting and analysis at any time. By the end of the book, you will have a clear understanding of accounting principles and know how to prepare accounts using Sage. With its practical approach and clear illustrations, Get Started in Sage Line 50 is an essential resource for any user. NOT GOT MUCH TIME? One, five and ten-minute introductions to key principles to get you started. AUTHOR INSIGHTS Lots of instant help with common problems and quick tips for success, based on the author's many years of experience. TEST YOURSELF Tests in the book and online to keep track of your progress. EXTEND YOUR KNOWLEDGE Extra online articles at www.teachyourself.com to give you a richer understanding of Sage Line 50. FIVE THINGS TO REMEMBER Quick refreshers to help you remember the key facts. TRY THIS Innovative exercises illustrate what you've learnt and how to use it.

Sage Payroll in Easy Steps Gillian Gilert 2011-06-30 Featuring all the essential features of the Sage Payroll software, this book guides the user through the package, covering such topics as: PAYE; National Insurance; pension schemes; and year end.