

Chapter 1 Wiley

Your one-stop resource for understanding current International Financial Reporting Standards As the International Accounting Standards Board (IASB) continues towards its goal of a set of high-quality financial reporting standards, and makes significant strides in achieving global convergence of accounting standards worldwide, International Financial Reporting Standards (IFRS) continue to be important to the accounting world. Wiley IFRS 2014 provides the necessary tools for understanding the IASB standards and offers practical guidance and expertise on how to use and implement them.

The most comprehensive and up-to-date English-language guide on hadith scholarship The source of much of our knowledge of the first two centuries of Islamic history, the hadith literature is made up of thousands of traditions collected during the formative years of Islam. Alongside the Qur'an, the hadith forms a second major body of Islamic scripture, and much of Islamic belief and practice rests on the hadith including Islamic law, Islamic theology, Qur'anic interpretation, political thought, and personal behavior. Yet despite its importance to Muslims worldwide and its indispensable role as a source for early Islamic history, the hadith remains unexplored territory for many non-specialist readers. The Wiley Blackwell Companion to the Hadith is a concise yet comprehensive overview of both Islamic and Western traditions of hadith study, offering up-to-date scholarship and providing readers with an essential guide to this distinctive aspect of Islam. Written by a multidisciplinary team of distinguished scholars, the Companion discusses questions of authenticity, epistemology and authority in the hadith and explores the relationship of the hadith literature to other ways of transmitting knowledge and establishing authority. Covers the origins of hadith, the application of hadith within the Islamic intellectual tradition, and contemporary revaluations of hadith literature Addresses developments in modern scholarship about the origins of Islam and Islamic law which are rooted in a reevaluation of hadith Presents new and groundbreaking research from international scholars from divergent perspectives to present an accurate and lively overview of the field Explores the emergence of skepticism about hadith among western scholars Surveys the evolution of a wide range of approaches to hadith among modern Muslims Filling a significant gap in current literature in the field, The Wiley Blackwell Companion to the Hadith is a valuable resource for students, scholars, and researchers in Islamic studies, Islamic law, history, and theology.

AN UP-TO-DATE, COMPREHENSIVE TREATMENT OF A CLASSIC TEXT ON MISSING DATA IN STATISTICS The topic of missing data has gained considerable attention in recent decades. This new edition by two acknowledged experts on the subject offers an up-to-date account of practical methodology for handling missing data problems. Blending theory and application, authors Roderick Little and Donald Rubin review historical approaches to the subject and describe simple methods for multivariate analysis with missing values. They then provide a coherent theory for analysis of problems based on likelihoods derived from statistical models for the data and the missing data mechanism, and then they apply the theory to a wide range of important missing data problems. Statistical Analysis with Missing Data, Third Edition starts by introducing readers to the subject and approaches toward solving it. It looks at the patterns and mechanisms that create the missing data, as well as a taxonomy of missing data. It then goes on to examine missing data in experiments, before discussing complete-case and available-case analysis, including weighting methods. The new edition expands its coverage to include recent work on topics such as nonresponse in sample surveys, causal inference, diagnostic methods, and sensitivity analysis, among a host of other topics. An updated "classic" written by renowned authorities on the subject Features over 150 exercises (including many new ones) Covers recent work on important methods like multiple imputation, robust alternatives to weighting, and Bayesian methods Revises previous topics based on past student feedback and class experience Contains an updated and expanded bibliography Statistical Analysis with Missing Data, Third Edition is an ideal textbook for upper undergraduate and/or beginning graduate level students of the subject. It is also an excellent source of information for applied statisticians and practitioners in government and industry.

Harlan's Crops and Man A scientific and historical study of crops and their age-old relationship with human civilization The cultivation and harvesting of crops have been at the heart of human culture and development for thousands of years. As we have grown from hunter-gatherers into agrarian societies and industrial economies, our ongoing relationship with the plants that feed us and support our manufacturing has also evolved. So too, of course, have those plants themselves, with the combined forces of shifting climates, selective plant breeding, and genetic modification all working to alter their existence in profound and fascinating ways. Coming some 30 years after its previous incarnation, the third edition of Harlan's Crops and Man marks an exciting re-examination of this rich topic. Its chapters lay out the foundations of crop diversity as we know it, covering topics that range from taxonomy and domestication to the origins of agricultural practices and their possible futures. Highlights include:ui Archeological and anthropological studies of agriculture's history and development Detailed examinations of the histories and classifications of both crops and weeds Explanations of taxonomic systems, gene pools, and plant evolution Studies of specific crops by geographical region Updated to include the latest data and research available, this new edition of Harlan's Crops and Man offers an illuminating exploration of agricultural history to all those engaged with plant science and the cultivation of crops.

Advanced Accounting delivers an in-depth, comprehensive introduction to advanced accounting theory and application, using actual business examples and relevant news stories to demonstrate how core principles translate into real-world business scenarios. Clearly defined and logically organized Learning Objectives aid in student comprehension, while highlighted Related Concepts illustrate how individual concepts fit into the larger picture. Short answer questions throughout the chapter allow students to test their knowledge before reaching the more in-depth end-of-chapter questions, promoting a deeper understanding of both technical and conceptual aspects of the field. Written by active accounting researchers, this text brings clarity and flexibility to the central ideas underlying business combinations, consolidated financial statements, foreign currency transactions, partnerships, non-profit accounting and more. This new Seventh Edition has been updated to reflect the latest changes to FASB and GASB standards, allowing students to build a skill set based on up-to-date practices. With a student-oriented pedagogy designed to enhance comprehension, promote engagement, and build real-world understanding, this user-friendly book provides an essential foundation in current advanced accounting methods and standards.

A hands-on volume for financial executives with guidance on the fair value measurement process In today's dynamic and volatile markets, whether buying or selling, what corporate officers need to know is the worth of an asset today, a task that for many has become complex and at times confusing. Fair Value Measurements: Practical Guidance and Implementation demystifies this topic, offering you a nuts-and-bolts guide of the most recent developments in preparing financial statements using fair value measurements. This straightforward book covers the best practices on measuring fair value in a business combination and how to subsequently test the value of these assets for impairment. Filters complicated insider concepts into easy-to-understand information on the valuation specialist's function Discusses the many new FASB pronouncements involving fair value Instantly familiarizes you on the ins and outs of fair value financial disclosure Well-written, conversational in tone, and filled with valuable insights, Fair Value Measurements: Practical Guidance and Implementation lifts the veil of confusion from the substantial and growing requirements for fair value disclosures.

Absorption and Scattering of Light by Small Particles Treating absorption and scattering in equal measure, this self-contained, interdisciplinary study examines and illustrates how small particles absorb and scatter light. The authors emphasize that any discussion of the optical behavior of small particles is inseparable from a full understanding of the optical behavior of the parent material-bulk matter. To divorce one concept from the other is to render any study on scattering theory seriously incomplete. Special features and important topics covered in this book include: * Classical theories of optical properties based on idealized models * Measurements for three representative materials: magnesium oxide, aluminum, and water * An extensive discussion of electromagnetic theory * Numerous exact and approximate

solutions to various scattering problems * Examples and applications from physics, astrophysics, atmospheric physics, and biophysics * Some 500 references emphasizing work done since Kerker's 1969 work on scattering theory * Computer programs for calculating scattering by spheres, coated spheres, and infinite cylinders

"The What Works literature is based on an overarching principle that highlights the need for empirically rigorous evidence based practice"-- Self-healing is a well-known phenomenon in nature: a broken bone merges after some time and if skin is damaged, the wound will stop bleeding and heals again. This concept can be mimicked in order to create polymeric materials with the ability to regenerate after they have suffered degradation or wear. Already realized applications are used in aerospace engineering, and current research in this fascinating field shows how different self-healing mechanisms proven successful by nature can be adapted to produce even more versatile materials. The book combines the knowledge of an international panel of experts in the field and provides the reader with chemical and physical concepts for self-healing polymers, including aspects of biomimetic processes of healing in nature. It shows how to design self-healing polymers and explains the dynamics in these systems. Different self-healing concepts such as encapsulated systems and supramolecular systems are detailed. Chapters on analysis and friction detection in self-healing polymers and on applications round off the book.

"Wiley GAAP 2015 contains the most comprehensive coverage of all GAAP pronouncements in a single volume, providing professionals with a complete reference to the entire GAAP hierarchy. This new edition includes the latest updates to the standards, along with AICPA ASEC statements of position and a comprehensive cross-reference of accounting topics to the new FASB codification system. All pronouncements are fully explained in detail, including terminology, and practice exercises demonstrate real-world application. Each chapter includes a discussion of perspectives and issues, sources of GAAP, definitions, concepts, rules, and examples, with specific appendices where applicable. This useful guide contains more examples and illustrations than any other GAAP reference, and all original pronouncements are referenced to the FASB Current Text. GAAP is constantly being updated, and users require expert interpretation and explanation of relevant principles with every new pronouncement. This book provides clear, user-friendly guidance, including FASB Technical Bulletins, AcSEC Practice Bulletins, FASB Implementation Guides, and AICPA Statements of Position and Accounting Interpretations."--

The most comprehensive guide to FASB Codifications, updated with the latest pronouncements Wiley GAAP 2019 is the essential resource for US GAAP implementation. Covering all codifications by the Financial Accounting Standards Board (FASB)—including the latest updates—this book provides clear explanations and practical examples for real-world application of these dynamic guidelines. Each chapter includes relevant sources of GAAP and expert guidance on interpretation, terminology, relevant concepts, and applicable rules, while in-depth discussion on the issues surrounding specific pronouncements offers informative perspective for a variety of scenarios. This user-friendly reference covers every pronouncement currently in effect or being deliberated—including FASB Technical Bulletins, FASB Implementation Guides, AcSEC Practice Bulletins, and AICPA Accounting Interpretations—in a single volume, fully referenced to the FASB Current Text and cross-referenced to the new FASB codification system. Clear and concise without sacrificing depth or rigor, this invaluable resource simplifies research and helps CPAs and other accounting professionals ensure accuracy and compliance. Examine the latest changes to US GAAP standards and practices Gain expert perspectives on the issues surrounding specific pronouncements Learn how the standards translate to common real-world scenarios Clarify implementation through numerous illustrations and real-world examples Staying up-to-date with constantly-evolving guidelines is a challenge, but the requirement for accurate interpretation and appropriate application adds an additional layer of complexity in an area where noncompliance could expose an organization to significant risk. Wiley GAAP 2019 provides the guidance, insight, and perspective accounting professionals need to ensure accurate and up-to-date GAAP implementation.

Using electrochemical impedance spectroscopy in a broad range of applications This book provides the background and training suitable for application of impedance spectroscopy to varied applications, such as corrosion, biomedical devices, semiconductors and solid-state devices, sensors, batteries, fuel cells, electrochemical capacitors, dielectric measurements, coatings, electrochromic materials, analytical chemistry, and imaging. The emphasis is on generally applicable fundamentals rather than on detailed treatment of applications. With numerous illustrative examples showing how these principles are applied to common impedance problems, Electrochemical Impedance Spectroscopy is ideal either for course study or for independent self-study, covering: Essential background, including complex variables, differential equations, statistics, electrical circuits, electrochemistry, and instrumentation Experimental techniques, including methods used to measure impedance and other transfer functions Process models, demonstrating how deterministic models of impedance response can be developed from physical and kinetic descriptions Interpretation strategies, describing methods of interpreting of impedance data, ranging from graphical methods to complex nonlinear regression Error structure, providing a conceptual understanding of stochastic, bias, and fitting errors in frequency-domain measurements An overview that provides a philosophy for electrochemical impedance spectroscopy that integrates experimental observation, model development, and error analysis This is an excellent textbook for graduate students in electrochemistry, materials science, and chemical engineering. It's also a great self-study guide and reference for scientists and engineers who work with electrochemistry, corrosion, and electrochemical technology, including those in the biomedical field, and for users and vendors of impedance-measuring instrumentation.

The Wiley-Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation. With these new unabridged softcover volumes, Wiley hopes to extend the lives of these works by making them available to future generations of statisticians, mathematicians, and scientists. "Cluster analysis is the increasingly important and practical subject of finding groupings in data. The authors set out to write a book for the user who does not necessarily have an extensive background in mathematics. They succeed very well." —Mathematical Reviews "Finding Groups in Data [is] a clear, readable, and interesting presentation of a small number of clustering methods. In addition, the book introduced some interesting innovations of applied value to clustering literature." —Journal of Classification "This is a very good, easy-to-read, and practical book. It has many nice features and is highly recommended for students and practitioners in various fields of study." —Technometrics An introduction to the practical application of cluster analysis, this text presents a selection of methods that together can deal with most applications. These methods are chosen for their robustness, consistency, and general applicability. This book discusses various types of data, including interval-scaled and binary variables as well as similarity data, and explains how these can be transformed prior to clustering.

The 2019 reference for the interpretation and application of the latest international standards Wiley IFRS® Standards 2019 is a revised and comprehensive resource that includes the information needed to interpret and apply the most recent International Financial Reporting Standards (IFRS®) as outlined by the International Accounting Standards Board (IASB). This accessible resource contains a wide range of practical examples as well as invaluable guidance on the expanding framework for unified financial reporting. The authors provide IFRIC interpretations and directions designed to ensure a clear understanding of the most recent standards. The IFRS® standards are ever evolving, therefore it is essential that professionals and students have the information needed to apply the standards correctly in real-world cases. Wiley IFRS® Standards 2019 offers a complete, up-to-date reference that aids in the application of the latest international standards in a manner that is transparent, accountable and efficient. This edition includes IFRS 9 Financial Instruments; IFRS 15 Revenue from Contracts with Customers; IFRS 16 Leases and amendments issued and effective for annual periods beginning on or after 01 January 2018 and 01 January 2019 as issued by the IASB by 30 June 2018. This edition also includes some introductory guidance for IFRS 17 Insurance Contracts and incorporates the revised Conceptual Framework for Financial Reporting 2018. This important guide is written by the people passionate about IFRS® at PKF International. PKF International consists of over 400 offices, operating in 150 countries across five regions.

PKF International specialises in providing high quality audit, accounting, tax, and business advisory solutions to international and domestic organisations around the globe. PKF International is a global family of legally independent firms bound together by a shared commitment to quality, integrity and the creation of clarity in a complex regulatory environment. PKF International is a member of the Forum of Firms – an organisation dedicated to consistent and high-quality standards of financial reporting and auditing practices worldwide. www.pkf.com. PKF International Limited administers a family of legally independent firms and does not accept any responsibility or liability for the actions or inactions of any individual member or correspondent firm or firms. All rights reserved.

Provides a fully revised Eleventh Edition of the definitive reference to swine health and disease Diseases of Swine has been the definitive reference on swine health and disease for over 60 years. This new edition has been completely revised to include the latest information, developments, and research in the field. Now with full color images throughout, this comprehensive and authoritative resource has been redesigned for improved consistency and readability, with a reorganized format for more intuitive access to information. Diseases of Swine covers a wide range of essential topics on swine production, health, and management, with contributions from more than 100 of the foremost international experts in the field. This revised edition makes the information easy to find and includes expanded information on welfare and behavior. A key reference for anyone involved in the swine industry, Diseases of Swine, Eleventh Edition: Presents a thorough revision to the gold-standard reference on pig health and disease Features full color images throughout the book Includes information on the most current advances in the field Provides comprehensive information on swine welfare and behavior Offers a reorganized format to make the information more accessible Written for veterinarians, academicians, students, and individuals and agencies responsible for swine health and public health, Diseases of Swine, Eleventh Edition is an essential guide to swine health.

Wiley GAAP 2019 Interpretation and Application of Generally Accepted Accounting Principles John Wiley & Sons

The best-selling author of Big Data is back, this time with a unique and in-depth insight into how specific companies use big data. Big data is on the tip of everyone's tongue. Everyone understands its power and importance, but many fail to grasp the actionable steps and resources required to utilise it effectively. This book fills the knowledge gap by showing how major companies are using big data every day, from an up-close, on-the-ground perspective. From technology, media and retail, to sport teams, government agencies and financial institutions, learn the actual strategies and processes being used to learn about customers, improve manufacturing, spur innovation, improve safety and so much more. Organised for easy dip-in navigation, each chapter follows the same structure to give you the information you need quickly. For each company profiled, learn what data was used, what problem it solved and the processes put it place to make it practical, as well as the technical details, challenges and lessons learned from each unique scenario. Learn how predictive analytics helps Amazon, Target, John Deere and Apple understand their customers Discover how big data is behind the success of Walmart, LinkedIn, Microsoft and more Learn how big data is changing medicine, law enforcement, hospitality, fashion, science and banking Develop your own big data strategy by accessing additional reading materials at the end of each chapter

ACCOUNTING BEST PRACTICES Seventh Edition Today's accounting staffs are called on to work magic: process transactions, write reports, improve efficiency, create new processes—all at the lowest possible cost, using an ever-shrinking proportion of total corporate expenses. Sound impossible? Not if your staff is using the best practices for accounting. Fully updated in a new edition, Accounting Best Practices, Seventh Edition draws from renowned accounting leader Steven Bragg's extensive experience in successfully developing, operating, and consulting various accounting departments. This invaluable resource has the at-your-fingertips information you need, whether you've been searching for ways to cut costs in your accounting department, or just want to offer more services without the added expense. The best practices featured in this excellent step-by-step manual constitute need-to-know information concerning the most advanced techniques and strategies for increasing productivity, reducing costs, and monitoring existing accounting systems. This new edition boasts over 400 best practices, with fifty new to this edition in the areas of taxation, finance, collections, general ledger, accounts payable, and billing. Now featuring a corresponding seven-minute podcast for each chapter found on the book's companion website, Accounting Best Practices is the perfect, do-it-yourself book for the manager who wants to significantly boost their accounting department.

A discussion-based learning approach to corporate finance fundamentals Lessons in Corporate Finance explains the fundamentals of the field in an intuitive way, using a unique Socratic question and answer approach. Written by award-winning professors at M.I.T. and Tufts, this book draws on years of research and teaching to deliver a truly interactive learning experience. Each case study is designed to facilitate class discussion, based on a series of increasingly detailed questions and answers that reinforce conceptual insights with numerical examples. Complete coverage of all areas of corporate finance includes capital structure and financing needs along with project and company valuation, with specific guidance on vital topics such as ratios and pro formas, dividends, debt maturity, asymmetric information, and more. Corporate finance is a complex field composed of a broad variety of sub-disciplines, each involving a specific skill set and nuanced body of knowledge. This text is designed to give you an intuitive understanding of the fundamentals to provide a solid foundation for more advanced study. Identify sources of funding and corporate capital structure Learn how managers increase the firm's value to shareholders Understand the tools and analysis methods used for allocation Explore the five methods of valuation with free cash flow to firm and equity Navigating the intricate operations of corporate finance requires a deep and instinctual understanding of the broad concepts and practical methods used every day. Interactive, discussion-based learning forces you to go beyond memorization and actually apply what you know, simultaneously developing your knowledge, skills, and instincts. Lessons in Corporate Finance provides a unique opportunity to go beyond traditional textbook study and gain skills that are useful in the field.

From the early Sumerian clay tablet through to the emergence of the electronic text, this Companion provides a continuous and coherent account of the history of the book. Makes use of illustrative examples and case studies of well-known texts Written by a group of expert contributors Covers topical debates, such as the nature of censorship and the future of the book

Table of Contents Preface Acknowledgments for the first edition Acknowledgments for the second edition 1 Overview of Membrane Science and Technology 1 2 Membrane Transport Theory 15 3 Membranes and Modules 89 4 Concentration Polarization 161 5 Reverse Osmosis 191 6 Ultrafiltration 237 7 Microfiltration 275 8 Gas Separation 301 9 Pervaporation 355 10 Ion Exchange Membrane Processes - Electrodialysis 393 11 Carrier Facilitated Transport 425 12 Medical Applications of Membranes 465 13 Other Membrane Processes 491 Appendix 523 Index 535.

A concise introduction to the chemistry and design principles behind important metal-organic frameworks and related porous materials Reticular chemistry has been applied to synthesize new classes of porous materials that are successfully used for myriad applications in areas such as gas separation, catalysis, energy, and electronics. Introduction to Reticular Chemistry gives an unique overview of the principles of the chemistry behind metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and zeolitic imidazolate frameworks (ZIFs). Written by one of the pioneers in the field, this book covers all important aspects of reticular chemistry, including design and synthesis, properties and characterization, as well as current and future applications Designed to be an accessible resource, the book is written in an easy-to-understand style. It includes an extensive bibliography, and offers figures and videos of crystal structures that are available as an electronic supplement. Introduction to Reticular Chemistry: -Describes the underlying principles and design elements for the synthesis of important metal-organic frameworks (MOFs) and related materials -Discusses both

real-life and future applications in various fields, such as clean energy and water adsorption -Offers all graphic material on a companion website -Provides first-hand knowledge by Omar Yaghi, one of the pioneers in the field, and his team. Aimed at graduate students in chemistry, structural chemists, inorganic chemists, organic chemists, catalytic chemists, and others, *Introduction to Reticular Chemistry* is a groundbreaking book that explores the chemistry principles and applications of MOFs, COFs, and ZIFs.

The high-level language of R is recognized as one of the most powerful and flexible statistical software environments, and is rapidly becoming the standard setting for quantitative analysis, statistics and graphics. R provides free access to unrivalled coverage and cutting-edge applications, enabling the user to apply numerous statistical methods ranging from simple regression to time series or multivariate analysis. Building on the success of the author's bestselling *Statistics: An Introduction using R*, *The R Book* is packed with worked examples, providing an all inclusive guide to R, ideal for novice and more accomplished users alike. The book assumes no background in statistics or computing and introduces the advantages of the R environment, detailing its applications in a wide range of disciplines. Provides the first comprehensive reference manual for the R language, including practical guidance and full coverage of the graphics facilities. Introduces all the statistical models covered by R, beginning with simple classical tests such as chi-square and t-test. Proceeds to examine more advance methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. *The R Book* is aimed at undergraduates, postgraduates and professionals in science, engineering and medicine. It is also ideal for students and professionals in statistics, economics, geography and the social sciences.

A trusted classic on the key methods in population sampling—now in a modernized and expanded new edition *Sampling of Populations, Fourth Edition* continues to serve as an all-inclusive resource on the basic and most current practices in population sampling. Maintaining the clear and accessible style of the previous edition, this book outlines the essential statistical methods for survey design and analysis, while also exploring techniques that have developed over the past decade. The Fourth Edition successfully guides the reader through the basic concepts and procedures that accompany real-world sample surveys, such as sampling designs, problems of missing data, statistical analysis of multistage sampling data, and nonresponse and poststratification adjustment procedures. Rather than employ a heavily mathematical approach, the authors present illustrative examples that demonstrate the rationale behind common steps in the sampling process, from creating effective surveys to analyzing collected data. Along with established methods, modern topics are treated through the book's new features, which include: A new chapter on telephone sampling, with coverage of declining response rates, the creation of "do not call" lists, and the growing use of cellular phones A new chapter on sample weighting that focuses on adjustments to weight for nonresponse, frame deficiencies, and the effects of estimator instability An updated discussion of sample survey data analysis that includes analytic procedures for estimation and hypothesis testing A new section on Chromy's widely used method of taking probability proportional to size samples with minimum replacement of primary sampling units An expanded index with references on the latest research in the field All of the book's examples and exercises can be easily worked out using various software packages including SAS, STATA, and SUDAAN, and an extensive FTP site contains additional data sets. With its comprehensive presentation and wealth of relevant examples, *Sampling of Populations, Fourth Edition* is an ideal book for courses on survey sampling at the upper-undergraduate and graduate levels. It is also a valuable reference for practicing statisticians who would like to refresh their knowledge of sampling techniques.

Methods of diagnosis and prognosis play a key role in the reliability and safety of industrial systems. Failure diagnosis requires the use of suitable sensors, which provide signals that are processed to monitor features (health indicators) for defects. These features are required to distinguish between operating states, in order to inform the operator of the severity level, or even the type, of a failure. Prognosis is defined as the estimation of a systems lifespan, including how long remains and how long has passed. It also encompasses the prediction of impending failures. This is a challenge that many researchers are currently trying to address. *Electrical Systems*, a book in two volumes, informs readers of the theoretical solutions to this problem, and the results obtained in several laboratories in France, Spain and further afield. To this end, many researchers from the scientific community have contributed to this book to share their research results. A practical framework to avoid burnout and keep great teachers teaching *Onward* tackles the problem of educator stress, and provides a practical framework for taking the burnout out of teaching. Stress is part of the job, but when 70 percent of teachers quit within their first five years because the stress is making them physically and mentally ill, things have gone too far. Unsurprisingly, these effects are highest in difficult-to-fill positions such as math, science, and foreign languages, and in urban areas and secondary classrooms—places where we need our teachers to be especially motivated and engaged. This book offers a path to resiliency to help teachers weather the storms and bounce back—and work toward banishing the rain for good. This actionable framework gives you concrete steps toward rediscovering yourself, your energy, and your passion for teaching. You'll learn how a simple shift in mindset can affect your outlook, and how taking care of yourself physically, mentally, and emotionally is one of the most important things you can do. The companion workbook helps you put the framework into action, streamlining your way toward renewal and strength. Cultivate resilience with a four-part framework based on 12 key habits Uncover your true self, understand emotions, and use your energy where it counts Adopt a mindful, story-telling approach to communication and community building Keep learning, playing, and creating to create an environment of collective celebration By cultivating resilience in schools, we help ensure that we are working in, teaching in, and leading organizations where every child thrives, and where the potential of every child is recognized and nurtured. *Onward* provides a step-by-step plan for reigniting that spark.

Advances in technology, such as MP3 players, the Internet and DVDs, have led to the production, storage and distribution of a wealth of audio signals, including speech, music and more general sound signals and their combinations.

MPEG-7 audio tools were created to enable the navigation of this data, by providing an established framework for effective multimedia management. MPEG-7 Audio and Beyond: Audio Content Indexing and Retrieval is a unique insight into the technology, covering the following topics: the fundamentals of MPEG-7 audio, principally low-level descriptors and sound classification and similarity; spoken content description, and timbre, melody and tempo music description tools; existing MPEG-7 applications and those currently being developed; examples of audio technology beyond the scope of MPEG-7. Essential reading for practising electronic and communications engineers designing and implementing MPEG-7 compliant systems, this book will also be a useful reference for researchers and graduate students working with multimedia database technology.

The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features: * Chapters reorganized to improve teaching * 200 new problems * New material on source coding, portfolio theory, and feedback capacity * Updated references Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

The classic book on human movement in biomechanics, newly updated Widely used and referenced, David Winter's Biomechanics and Motor Control of Human Movement is a classic examination of techniques used to measure and analyze all body movements as mechanical systems, including such everyday movements as walking. It fills the gap in human movement science area where modern science and technology are integrated with anatomy, muscle physiology, and electromyography to assess and understand human movement. In light of the explosive growth of the field, this new edition updates and enhances the text with: Expanded coverage of 3D kinematics and kinetics New materials on biomechanical movement synergies and signal processing, including auto and cross correlation, frequency analysis, analog and digital filtering, and ensemble averaging techniques Presentation of a wide spectrum of measurement and analysis techniques Updates to all existing chapters Basic physical and physiological principles in capsule form for quick reference An essential resource for researchers and student in kinesiology, bioengineering (rehabilitation engineering), physical education, ergonomics, and physical and occupational therapy, this text will also provide valuable to professionals in orthopedics, muscle physiology, and rehabilitation medicine. In response to many requests, the extensive numerical tables contained in Appendix A: "Kinematic, Kinetic, and Energy Data" can also be found at the following Web site: www.wiley.com/go/biomechanics

INVASIVE ALIEN SPECIES Invasive Alien Species: Observations and Issues from Around the World Volume 1: Issues and Invasions in Africa Invasive alien species are spreading into new ecosystems each year. The impacts caused by these invaders can be swift and devastating. The topic of invasive alien species is large, complex, and globally significant at various scales, exacerbated by the globalization of world economies and increased trade and commerce that has overcome natural barriers to species movement. Invasive alien species threaten global food supplies, water quality and availability, and energy production and delivery. With the added risks associated with global climate change, the global homogenization of plants, animals, and microbes is a major factor in the decline in ecosystem health and ecosystem services worldwide. To counter this trend, there is a critical need to unify governments, cultures, and programs to improve cross-boundary coordination to effectively address the wide range of invasive alien species threats to the environment, economies, and to plant and animal health; particularly human health. This 4-volume work is the first to compile a set of useful material for key topics, to provide a better understanding of the overall global threat of invasive alien species and the diverse array of problems faced around the world, and assemble material that includes potential replicable solutions to overcome these threats. The books also highlight the threat posed by invasive alien species in terms of a global 'call to action'. Since invasive species know no boundaries, it is our hope that by compiling material from different scientific and social perspectives around the world, and sharing knowledge and examples of a diverse array of associated topics, we can advance global awareness and improve unified national responses to the threat posed by invasive alien species.

Today's controllers are no longer seen as technicians who process transactions; they are now seen as business executives with a wide-ranging knowledge of total business operations, best practices, and corporate strategy. Providing a comprehensive overview of the roles and responsibilities of controllers in today's environment, this Eighth Edition of Controllershship continues to provide controllers and vice presidents of finance with all aspects of management accounting from the controller's perspective, including internal control, profit planning, cost control, inventory, and financial disclosure.

This book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. Meta-analysis has become a critically important tool in fields as diverse as medicine, pharmacology, epidemiology, education, psychology, business, and ecology. Introduction to Meta-Analysis: Outlines the role of meta-analysis in the research process Shows how to compute effects sizes and treatment effects Explains the fixed-effect and random-effects models for synthesizing data Demonstrates how to assess and interpret variation in effect size across studies Clarifies concepts using text and figures, followed by formulas and examples Explains how to avoid common mistakes in meta-analysis Discusses controversies in meta-analysis Features a web site with additional material and exercises A superb combination of lucid prose and informative graphics, written by four of the world's leading experts on all aspects of meta-analysis. Borenstein, Hedges, Higgins, and Rothstein provide a refreshing departure from cookbook approaches with their clear explanations of the what and why of meta-analysis. The book is ideal as a course textbook or for self-study. My students, who used pre-publication versions of some of the chapters, raved about the clarity of the explanations and examples. David Rindskopf, Distinguished Professor of Educational Psychology, City University of New York, Graduate School and University Center, & Editor of the Journal of Educational and Behavioral Statistics. The approach taken by Introduction to Meta-analysis is intended to be primarily conceptual, and it is amazingly successful at achieving that goal. The reader can comfortably skip the formulas and still understand their application and underlying motivation. For the more statistically sophisticated reader, the relevant formulas and worked examples provide a superb practical guide to performing a meta-analysis. The book provides an eclectic mix of examples from education, social science, biomedical studies, and even ecology. For anyone considering leading a course in meta-analysis, or pursuing self-directed study, Introduction to Meta-analysis would be a clear first choice. Jesse A. Berlin, ScD Introduction to Meta-Analysis is an excellent resource for novices and experts alike. The book provides a clear and comprehensive presentation of all basic and most advanced approaches to meta-analysis. This book will be referenced for decades. Michael A. McDaniel, Professor of Human Resources and Organizational Behavior, Virginia Commonwealth University Get the most comprehensive coverage of the FASB Codification and the latest FASB updates in a single volume Wiley GAAP 2018: Interpretation and Application of Generally Accepted Accounting Principles is a thorough study and analysis of all US Generally Accepted

Accounting Principles (GAAP) set forth in the pronouncements of the FASB (Financial Accounting Standards Board) Codification. All topics are explained with relevant terminology and practice-oriented real world examples. Each chapter is composed of a discussion of perspectives and issues, definitions of terms, concepts, rules, and examples. US GAAP is constantly being updated, and its users require expert interpretation and explanation of the relevant principles. This book provides the most comprehensive coverage of each Codification topic. It contains clear, user-friendly guidance on every pronouncement. Fully up-to-date with all the latest changes, including those to inventory, financial instruments, revenue, and leases Includes more real-world examples and illustrations than competing titles Arranged according to the FASB Codification, all topics are referenced to the Codification Wiley GAAP 2018 renders GAAP more understandable and accessible for research and is designed to reduce the amount of time and effort needed to solve accounting research and implementation issues, making it the best go-to source for CPAs and others working in accounting.

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