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Protecting children from abuse and neglect is a serious and complex area of social work practice and understanding the critical skills of communicating with and listening to children's voices, and those of their advocates and survivors, is essential. In this new edition of a highly-regarded book, the authors offer a strengthened children's rights perspective and explore four main categories of child abuse - emotional abuse, sexual abuse, neglect and physical abuse. The book also considers legal safeguards and protective processes to increase the creativity and confidence of those undertaking such work. Locating knowledge and skills within a series of case examples from real life practice and serious case reviews, this book is an indispensable resource for students, professionals and others concerned with protecting children. This second edition has been comprehensively revised and updated to include current research evidence and a focus on the neglected protection needs of sexually exploited young people, children in custody, disabled children, young carers and unaccompanied child migrants. The use of psychedelic drugs plants is rising, and with it the number of reports narrating encounters with otherworldly visionary beings. Approaches to these experiences have often been literal, archetypal or dismissive. Evolutionary psychology and the cognitive science of religion suggest innate and non-imagistic mental foundations for these phenomena arising from easily-triggered evolutionary functions during emotive periods of high cognitive demand. Such functions include agent detection, social intelligence faculties and metacognition. This wide-ranging book explores how our deepest mental processes predispose us as humans to believe in supernatural agents, and presents a new hypothesis of how these same cognitions facilitate the emergence of those agents to become present when psychedelic drugs and plants are ingested. Bruce concludes that visionary beings shimmer within as awe-inspiring products of the mind, an experience which rests at the heart of what it is to be human. The Primary National Curriculum sets challenging expectations for the teaching of writing. Children must master the process of composition, redrafting, editing and writing final pieces. The book: *Provides practical advice for the teaching of writing *Demonstrates how to model writing for children *Includes examples of good classroom practice of modelling writing *Focuses on writing in different aspects of the curriculum *Provides guidance, case studies and theoretical perspectives to show readers how they can become writers with and for children The updated second edition includes: *Ideas for discussion in a seminar/staff meeting/CPD event *A new chapter enabling teachers to support children to bring their own cultures and ethnicities into their writing This book provides a hypothetical classification of constitutions through international law and human rights values used in any constitution, which draws connections between the inclusive standards of international law and human rights contained in the constitutions. Consequently, an evaluation method will be available for users to rank any constitution potentiality of analysis for grounds of any commitment and responsibility of the states concerning international law and human rights. "This important study uses novel quantitative and qualitative methods to explore the relationship between constitutional and international law. It is a significant contribution to the literature, and pushes

us further toward rigorous analysis of transnational legal regimes." Tom Ginsburg Professor of Political Science, Chicago Law School. Soil fauna plays a significant role at all trophic levels of the soil food web and regulates processes that are crucial for soil functioning, such as nutrient cycling, immobilization and/or degradation of toxic compounds, formation of soil structure, greenhouse gas emissions and C turnover. Although soil fauna is not thought to contribute significantly to soil respiration during litter or soil organic matter (SOM) decomposition, the diversity of soil fauna has been found to strongly influence SOM distribution and dynamics. Yet, the functional contribution of soil fauna to many soil processes is not well understood due to methodological limitations and the high complexity of interactions at various spatiotemporal scales. In general, soil fauna has received far less scientific attention than bacteria and fungi (and lately archaea) in soil studies and has been regularly ignored in global biogeochemical models, with maybe exceptions for some earthworms. However, recent studies are raising the awareness of the influence of soil fauna on ecosystems dynamics. For instance, earthworms have been found to be major players in N₂O emissions from soils. They exert a strong influence on C stabilization, and they promote the degradation of polycyclic aromatic hydrocarbons (PAHs). Less studied, ants and termites have been found to increase crop productivity in drylands, and different lifeforms of Collembola have been shown to impact microorganisms in various ways over time, thereby potentially affecting C and N cycles within farming systems. The influence of soil fauna indeed manifests over a broad ranges of spatiotemporal scales. For example, some effect such as aggregate formation may cumulate over time and finally contribute to the formation of whole soil profiles, which serve as a framework for other soil processes such as water movement, decomposition, etc. Meanwhile, soil biodiversity is impacted by an increasing human pressure through deforestation, agriculture intensification, habitat fragmentation or climate change (increasing temperatures, extreme weather events), which leads to soil biodiversity loss, in particular of soil fauna, with associated consequences on soil functioning and resilience.

Code more efficiently and effectively with Carol J. Buck's 2015 ICD-9-CM for Physicians: Volumes 1 & 2, Professional Edition. Designed by coders for coders, this full-color reference combines Netter's Anatomy illustrations and the Official Guidelines for Coding and Reporting. Its format makes it easy to access the ICD-9-CM information you need to stay up-to-date and ensure the most accurate billing and optimal reimbursement in physician-based and outpatient coding settings. In addition, you can take this resource into your certification exams for enhanced testing support! Exclusive focus on ICD-9-CM: Volumes 1 & 2 provides clear, concise coverage of physician-based and hospital outpatient coding essentials. Netter's Anatomy art is included in the front of the book and cross referenced within the Tabular List to help you understand complex anatomic information and how it may affect choosing codes. Full-color design includes consistent color-coded symbols and text, providing easier access to codes and coding information. More than 130 full-color illustrations provide visual orientation and enhance understand of specific coding situations. Official Guidelines for Coding and Reporting (OGCRs) are listed in full and also integrated within the code set, providing fast, easy access to the official coding rules. Symbols and highlights identify codes that may require special consideration before coding, including: Not First-Listed Diagnosis Use Additional Digit(s) Unspecified Includes and Excludes Use Additional Code First Color-coded Table of Drugs simplifies code selection. Use Additional Digit(s) symbol identifies codes in the index that require an additional digit and serves as a reminder to check the Tabular List. Additional elements within specific codes provide you with useful hints, tips, and definitions to aid in understanding difficult terminology, diseases and conditions, or coding in a specific category. Codingupdates.com companion website includes the latest changes to the ICD coding system. Items are included throughout Diseases: Tabular List, Volume 1 to provide information on common diseases and conditions to ensure that you code accurately. Age and Sex edits from the Definition of Medicare Code Edits denote codes that are used only with patients of a specific age or sex, helping to ensure accurate reporting. Omit Codes and Code First draw attention to government material needing special attention. This book explores four real-world topics through the lens of probability theory. It can be used to supplement a standard text in probability or statistics. Most elementary textbooks present the basic theory and then illustrate the ideas with some neatly packaged examples. Here the authors assume that the reader has seen, or is learning, the basic theory from another book and concentrate in some depth on the following topics: streaks, the stock market, lotteries, and fingerprints. This extended format allows the authors to present multiple approaches to problems and to pursue promising side discussions in ways that would not be possible in a book constrained to cover a fixed set of topics. To keep the main narrative accessible, the authors have placed the more technical mathematical details in appendices. The appendices can be understood by someone who has taken one or two semesters of calculus. Selected, peer reviewed papers from the 2013 International Conference on Mechatronics and Intelligent Materials (MIM 2013), May 18-19, 2013, XiShuangBanNa, China The three-dimensional organization of the DNA inside the eukaryotic cell nucleus has emerged a critical regulator of genome integrity and function. Increasing evidence indicates that nuclear pore complexes (NPCs), the large protein channels that connect the nucleus to the cytoplasm, play a critical role in the establishment and maintenance of chromatin organization and in the regulation of gene activity. These findings, which oppose the traditional view of NPCs as channels with only one: the facilitation of nucleocytoplasmic molecule exchange, have completely transformed our understanding of these structures. This book describes our current knowledge of the role of NPCs in genome organization and gene expression regulation. It starts by providing an overview of the different compartments and structures of the nucleus and how they contribute to organizing the genome, then moves to examine the direct roles of NPCs and their components in gene expression regulation in different organisms, and ends by describing the function of nuclear pores in the infection and genome integration of HIV, in DNA repair and telomere maintenance, and in the regulation of chromosome segregation and mitosis. This book provides an intellectual backdrop for anyone interested in understanding how the gatekeepers of the nucleus contribute to safeguarding the integrity and function of the eukaryotic genome. This SpringerBrief discusses the characteristics of spatiotemporal movement data, including uncertainty and scale. It investigates three core aspects of Computational Movement Analysis: Conceptual modeling of movement and movement spaces, spatiotemporal analysis methods aiming at a better understanding of movement processes (with a focus on data mining for movement patterns), and using decentralized spatial computing methods in movement analysis. The author presents Computational Movement Analysis as an interdisciplinary umbrella for analyzing movement processes with methods from a range of fields including GIScience, spatiotemporal databases and data mining. Key challenges in Computational Movement Analysis include bridging the semantic gap, privacy issues when movement data involves people, incorporating big and open data, and opportunities for decentralized movement analysis arising from the internet of things. The interdisciplinary concepts of Computational Movement Analysis make this an important book for professionals and students in computer science, geographic information science and its application areas, especially movement ecology and transportation research. This text introduces upper division undergraduate/beginning graduate students in mathematics, finance, or economics, to the core topics of a beginning course in finance/financial engineering. Particular emphasis is placed on exploiting the power of the Monte Carlo method to illustrate and explore financial principles. Monte Carlo is the uniquely appropriate tool for modeling the random factors that drive financial markets and simulating their implications. The Monte Carlo method is introduced early and it is used in conjunction with the geometric Brownian motion model (GBM) to illustrate and analyze the topics covered in the remainder of the text. Placing focus on Monte Carlo methods allows for students to travel a short road from theory to practical applications. Coverage includes investment science, mean-variance portfolio theory, option pricing principles, exotic options, option trading strategies, jump diffusion and exponential Lévy alternative models, and the Kelly criterion for maximizing investment growth. Novel features: inclusion of both portfolio theory and contingent claim analysis in a single text pricing methodology for exotic options expectation analysis of option trading strategies pricing models that transcend the Black-Scholes framework optimizing investment allocations concepts thoroughly explored through numerous simulation exercises numerous worked examples and illustrations The mathematical background required is a year and one-half course in calculus, matrix algebra covering solutions of linear systems, and a knowledge of probability including expectation, densities and the normal distribution. A refresher for these topics is presented in the Appendices. The programming background needed is how to code branching, loops and subroutines in some mathematical or general purpose language. The mathematical background required is a year and one-half course in calculus, matrix algebra covering solutions of linear systems, and a knowledge of probability including expectation, densities and the normal distribution. A refresher for these topics is presented in the Appendices. The programming background needed is how to code branching, loops and subroutines in some mathematical or general purpose language. Also by the author: (with F. Mendivil) Explorations in Monte

Carlo, ©2009, ISBN: 978-0-387-87836-2; (with J. Herod) *Mathematical Biology: An Introduction with Maple and Matlab*, Second edition, ©2009, ISBN: 978-0-387-70983-3. Monthly journal devoted entirely to research in pure and applied mathematics, and, in general, includes longer papers than those in the Proceedings of the American Mathematical Society. Head hits cause brain damage - but not always. Should we ban sport to protect athletes? Exposure to electromagnetic fields is strongly associated with cancer development - does that mean exposure causes cancer? Should we encourage old fashioned communication instead of mobile phones to reduce cancer rates? According to popular wisdom, the Mediterranean diet keeps you healthy. Is this belief scientifically sound? Should public health bodies encourage consumption of fresh fruit and vegetables? Severe financial constraints on research and public policy, media pressure, and public anxiety make such questions of immense current concern not just to philosophers but to scientists, governments, public bodies, and the general public. In the last decade there has been an explosion of theorizing about causality in philosophy, and also in the sciences. This literature is both fascinating and important, but it is involved and highly technical. This makes it inaccessible to many who would like to use it, philosophers and scientists alike. This book is an introduction to philosophy of causality - one that is highly accessible: to scientists unacquainted with philosophy, to philosophers unacquainted with science, and to anyone else lost in the labyrinth of philosophical theories of causality. It presents key philosophical accounts, concepts and methods, using examples from the sciences to show how to apply philosophical debates to scientific problems. This report from the Education Committee looks at the administration of examinations for 15-19 year olds in England. The Committee expresses serious concerns about incentives in the exam system and about competition on syllabus content. Incentives in the system should be changed so the downward pressure through the competition of exam boards is mitigated. The Committee considers a number of options to change incentives, including: (i) A single board. This offers a simpler system, with no risk of competition, but the Committee believes the cost, risk and disruption outweigh the benefits; (ii) Franchising of subjects to exam boards. This removes syllabus competition, but again has downsides; (3) Or the current system of multiple boards. The Committee sees no benefit in competition on syllabus content, but the setting and marking of exams and associated administration, if properly regulated, could generate incentives and drive quality up, offering value for money to schools and colleges. The Committee also recommends the development of national syllabuses, accredited by Ofqual. The syllabuses would be developed by exam boards in conjunction with learned bodies and employer organisations and could therefore retain the benefits of competition on quality and the incentive for exam boards to innovate. Disabled people in developing countries are the poorest of the poor: if we are serious about tackling extreme poverty, our development work has to target them. So while it's good the UK government has brought disability on to the agenda for global development goals (1) - DfID must now lead by example and make effort to ensure the needs of disabled people become a clear and sustained priority going forward within its own development programmes. Despite enormous global advances in education and health since the turn of the millennium, disabled people continue to be excluded from the most basic of services. The Committee calls for DfID to: produce a disability strategy; appoint a larger team responsible for disability; and strengthen reporting processes; show much more ambition in its work with disabled people by targeting them and their needs explicitly; give disabled people a central role in its work; and promote attention to the needs of disabled people including making it an explicit requirement that funding reaches disabled people, especially in disaster and conflict situations where they are amongst the most at risk. This text presents advances in continuum damage mechanics for metals and metal matrix composites. Emphasis is placed on the theoretical formulation of the different constitutive models in this area, but sections are added to demonstrate the applications of the theory. This successful book continues to provide accountants with an understanding of the fundamental concepts necessary to use accounting effectively. The sixth edition offers new discussions on IFRS, including new codification numbers, examples of IFRS financial statements, and additional exercises. A look at more recent frauds such as the Bernie Madoff scandal have been added. Enhanced discussions of ethics and international accounting are presented. The coverage of non-cash items and their impact on decision making has been expanded. In addition, comprehensive case studies and problems help accountants tie the material together. This Government is proposing to introduce a system of automatic pensions transfers to help people to better keep track of their workplace pension savings. The majority of people being automatically enrolled are likely to join the default fund in defined contribution (DC) schemes. It is, therefore, important to ensure that these schemes deliver the best possible value for money. The impact of the charges levied on people's pensions savings over their lifetime can be significant - seemingly small variations in charges can result in a considerable difference in people's final retirement savings. A number of voluntary industry initiatives seeking to improve disclosure of charges information to scheme members and employers have been launched in an effort to reduce the complexity of the product. The Government welcomes these initiatives, but is interested in views on whether further action is required. There are a number of potential options: mandating disclosure to members by widening the disclosure requirements, to include information about charges; standardising disclosure to employers; or disclosure of transaction costs - require disclosure to members, employers, as well as trustees, and independent governance committees (as recommended by the OFT). The Government is also interested in hearing views on whether: a cap on pension scheme charges should be introduced; differential charging between active and deferred members should be banned in DC qualifying schemes; the ban on consultancy charges should be extended from AE schemes to all qualifying DC schemes; adviser commissions set up prior to the introduction of the Retail Distribution Review should be banned in qualifying schemes. The complex and ever-changing rules governing American presidential nomination contests are continuously up for criticism, but there is little to no consensus on exactly what the problems are, or on how to fix them. The evolving system is hardly rational because it was never carefully planned. So how are we to make sense of the myriad complexities in the primary process, how it affects the general election, and calls for change? In this thoroughly updated second edition of *The Imperfect Primary*, political scientist Barbara Norrander explores how presidential candidates are nominated, how that process bridges to the general election campaign, discusses past and current proposals for reform, and examines the possibility for more practical, incremental changes to the electoral rules. Norrander reminds us to be careful what we wish for—reforming the presidential nomination process is as complex as the current system. Through the modelling of empirical research to demonstrate how questions of biases can be systematically addressed, students can better see the advantages, disadvantages, and potential for unintended consequences in a whole host of reform proposals. The second edition includes an entirely new chapter on the connections between the primary and general election phases of presidential selection. The entire book has been revised to reflect the 2012 presidential primaries and election. The aim of this book is to explain the basic concepts and phenomena of quantum mechanics by means of visualization. Computer-generated illustrations are used extensively throughout the text, helping to establish the relation between quantum mechanics-wave functions, interference, atomic structure, and so forth-and classical physics-point mechanics, statistical mechanics, and wave optics. Even more important, by studying the pictures in parallel with the text, readers develop an intuition for such notoriously abstract phenomena as • the tunnel effect • excitation and decay of metastable states • wave packet motion within a well • systems of distinguishable and indistinguishable particles • free wave packets and scattering in three dimensions • angular momentum decomposition • stationary bound states in various three-dimensional potentials • Kepler motion of wave packets in the Coulomb field • spin and magnetic resonance. Illustrations from experiments in a variety of fields, including chemistry, and molecular, atomic, nuclear, and particle physics, underline the basic as well as the practical importance of quantum mechanics. This third edition includes a CD-ROM with all illustrations from the book in full color, suitable for direct display or for printing out as posters or teaching aids. It also includes a new chapter on quantile motion and tunneling time, as well as some additional phenomena and examples. Measuring the spin distribution of supermassive black holes is of critical importance for understanding how these black holes and their host galaxies form and evolve over time, yet this type of study is only in its infancy. This brief describes how astronomers measure spin in supermassive black holes using X-ray spectroscopy. It also reviews the constraints that have been placed on the spin distribution in local, bright active galaxies over the past six years, and the cosmological implications of these constraints. Finally, it summarizes the open questions that remain in this exciting new field of research and points toward future discoveries soon to be made by the next generation of space-based observatories. This report reveals results of the inquiry into children being treated in an appalling way not just by their abusers but, because of catastrophic failures by the very agencies that society has appointed to protect them. It is still happening, in every part of the country. The quality of the response to the abuse depends on where you live and that is

inexcusable. Race is a factor but it is one of many in cases of child sexual exploitation. Officials who fail to act, for example in places like Rotherham or Rochdale, must not be allowed to evade responsibility through early retirement or resignation for other reasons and should not be paid compensation of any kind. The police, social services and the Crown Prosecution Service must all bear responsibility for the way in which vulnerable children have been left unprotected by the system. The Ministry of Justice ought to implement a number of reforms to court processes including section 28 of the Youth Justice and Criminal Evidence Act 1999; the introduction of specialist courts either for child sexual exploitation cases or for sexual offences as a whole; and invite the Lord Chief Justice to consider recommending to the Judicial College that specific training on child sexual exploitation cases be developed and provided Elsevier and the American Medical Association have partnered to co-publish this ICD-9-CM reference by Carol J. Buck! Code more efficiently and effectively with Carol J. Buck's 2014 ICD-9-CM for Physicians: Volumes 1 and 2, Standard Edition. Designed by coders for coders, this reference combines Netter's Anatomy illustrations and the Official Guidelines for Coding and Reporting. Its format makes it easy to access the ICD-9-CM information you need to stay up-to-date and ensure the most accurate billing and optimal reimbursement in physician-based and outpatient coding settings. In addition, you can take this resource into your certification exams for enhanced testing support! An exclusive focus on ICD-9-CM Volumes 1 & 2 provides clear, concise coverage of physician-based and hospital outpatient coding essentials. Unique! Netter's anatomy art is included in the front of the book and cross referenced where appropriate within the Tabular list to help you understand complex anatomic information and how it may affect coding. Use Additional Digit(s) symbol in the Index identifies codes that require an additional digit and serves as a reminder to check the Tabular list to prevent inaccurate coding out of the index. Official Guidelines for Coding and Reporting (OGCRs) are listed and also integrated within the code set, providing fast, easy access to the official coding rules. Symbols and highlights identify new, revised, and deleted material as well as government material needing special considerations, including: Not First-Listed Diagnosis Use Additional Digit(s) Unspecified Includes and Excludes Use Additional Code First Additional elements within specific codes provide you with useful hints, tips, and definitions to supply additional coding instruction and aid in understanding difficult terminology, diseases and conditions, or coding in a specific category. Codingupdates.com companion website includes ICD-9-CM coding updates, an ICD-9-CM to ICD-10-CM crosswalk, and MS-DRG information. A comprehensive collection of the scientific papers of one of this century's most outstanding physicists. Documents morphology, taxonomy, phylogeny, evolutionary changes, and interactions of 23 orders of insects from the Middle Jurassic and Early Cretaceous faunas in Northern China This book showcases 23 different orders of insect fossils from the Mid Mesozoic period (165 to 125 Ma) that were discovered in Northeastern China. It covers not only their taxonomy and morphology, but also their potential implications on natural sciences, such as phylogeny, function, interaction, evolution, and ecology. It covers fossil sites; paleogeology; co-existing animals and plants in well-balanced eco-systems; insects in the spotlight; morphological evolution and functional development; and interactions of insects with co-existing plants, vertebrates, and other insects. The book also includes many elegant and beautiful photographs, line drawings, and 3-D reconstructions of fossilized and extant insects. Rhythms of Insect Evolution: Evidence from the Jurassic and Cretaceous in Northern China features chapter coverage of such insects as the: Ephemeroptera; Odonata; Blattaria; Isoptera; Orthoptera; Notoptera; Dermaptera; Chresmodidae; Phasmatodea; Plecoptera; Psocoptera; Homoptera; Heteroptera; Megaloptera; Raphidioptera; Neuroptera; Coleoptera; Hymenoptera Diptera; Mecoptera; Siphonaptera; Trichoptera and Lepidoptera. Combines academic natural science, popular science, and artistic presentation to illustrate rhythms of evolution for fossil insects from the Mid Mesozoic of Northern China Documents morphology, taxonomy, phylogeny, and evolutionary changes of 23 orders of insects from the Middle Jurassic and Early Cretaceous faunas in Northern China Presents interactions of insects with plants, vertebrates, and other insects based on well-preserved fossil evidence Uses photos of extant insects and plants, fossil and amber specimens, line drawings, and 3-D computer-generated reconstruction artworks to give readers clear and enjoyable impressions of the scientific findings Introduces insect-related stories from western and Chinese culture in text or sidebars to give global readers broader exposures Rhythms of Insect Evolution: Evidence from the Jurassic and Cretaceous in Northern China will appeal to entomologists, evolutionists, paleontologists, paleoecologists, and natural scientists. India's forest area has come down below one fifth of total geographical area, due to indiscriminate alienation of forest land for non-forestry purposes and deforestation leading to rapid loss in biodiversity and forest natural resources. An outdated Indian Forest Act, 1927, the most important legal instrument for forest management and administration, with a colonial mindset, influenced by Locke and monetization of forest resources for financial profiteering by the British colonial administration, has been found to be inadequate for conservation of valuable forest environment and resources and alienated local stakeholders in natural resource management. Higher judiciary has started intervening by issuing several judgements and orders, keeping in tune recent developments in the field of international environment law, to save forest land and forest resources, in absence of a strong legal frame work. Global initiatives for conservation of natural resources and mitigation of damaging effects of Climate Change, Sustainable Development Goals etc. have catalysed swift action on part of the government and other stake holders towards achieving conservation goals. A paradigm shift in the system for forest conservation and management, supported by a new law, based on sound scientific forestry, such as landscape level management etc. is the need of the hour. Focus on GAAP and IFRS, this title makes extensive use of international companies, allowing the reader to get a global understanding of financial accounting. Urban change is often difficult because we are dealing with people's elusive notions of place and perception, time and change. Urban design and planning in a changing urban context so that it remains relevant for people is elusive because the idea of place is embedded in memory and identity – but whose memory and whose identity? This book seeks to understand the urban change dynamic so that the planning of urban places aligns with the dynamic of people's perception of place. Planning Urban Places examines the premise that building cities is a concrete business surrounded by a shifting context. It discusses the notion of urban design and placemaking from the perspective of place perception and cognitive psychology, place philosophy and human geography. It also considers network theory to help illustrate the self-organising paradigm of small world network theory for planning urban places. This book deals with challenges of security in Nigeria, including the relationship between security and peace as imperatives for national development. It also analyses the various sources of insecurity in Nigeria and the challenges they pose to democratic governance. The book is a minefield of data on incidences and patterns of violent conflicts in Nigeria since May 29, 1999, which scholars and other readers are likely to find useful. With this fourth edition, accountants will acquire a practical set of tools and the confidence they need to use them effectively in making business decisions. It better reflects a more conceptual and decision-making approach to the material. The authors follow a "macro- to micro-" strategy by starting with a discussion of real financial statements first, rather than starting with the Accounting Cycle. The objective is to establish how a financial statement communicates the financing, investing, and operating activities of a business to users of accounting information. This motivates accountants by grounding the discussion in the real world, showing them the relevance of the topics covered to their careers. The Geologic Time Scale 2012, winner of a 2012 PROSE Award Honorable Mention for Best Multi-volume Reference in Science from the Association of American Publishers, is the framework for deciphering the history of our planet Earth. The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years, and the charts in this book present the most up-to-date, international standard, as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences. This 2012 geologic time scale is an enhanced, improved and expanded version of the GTS2004, including chapters on planetary scales, the Cryogenian-Ediacaran periods/systems, a prehistory scale of human development, a survey of sequence stratigraphy, and an extensive compilation of stable-isotope chemostratigraphy. This book is an essential reference for all geoscientists, including researchers, students, and petroleum and mining professionals. The presentation is non-technical and illustrated with numerous colour charts, maps and photographs. The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office, laboratory or field. The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access Gives insights in the construction, strengths, and limitations of the geological time scale that greatly enhances its function and its utility Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events Meets the needs of a range of users at various points in the workflow (researchers extracting linear time from rock records, students recognizing

the geologic stage by their content) WILEY-INTERSCIENCE PAPERBACK SERIES 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. "In recent years many monographs have been published on specialized aspects of multivariate data-analysis—on cluster analysis, multidimensional scaling, correspondence analysis, developments of discriminant analysis, graphical methods, classification, and so on. This book is an attempt to review these newer methods together with the classical theory. . . . This one merits two cheers." –J. C. Gower, Department of Statistics Rothamsted Experimental Station, Harpenden, U.K. Review in Biometrics, June 1987 Multivariate Observations is a comprehensive sourcebook that treats data-oriented techniques as well as classical methods. Emphasis is on principles rather than mathematical detail, and coverage ranges from the practical problems of graphically representing high-dimensional data to the theoretical problems relating to matrices of random variables. Each chapter serves as a self-contained survey of a specific topic. The book includes many numerical examples and over 1,100 references. Using isotopes as a tool for understanding Earth processes From establishing the absolute age of the Earth to providing a stronger understanding of the nexus between geology and life, the careful measurement and quantitative interpretation of minor variations in the isotopic composition of Earth's materials has provided profound insight into the origins and workings of our planet. Isotopic Constraints on Earth System Processes presents examples of the application of numerous different isotope systems to address a wide range of topical problems in Earth system science. Volume highlights include: examination of the natural fractionation of non-traditional stable isotopes utilizing isotopes to understand the origin of magmas and evolution of volcanic systems application of isotopes to interrogate and understand Earth's Carbon and Oxygen cycles examination of the geochemical and hydrologic processes that lead to isotopic fractionation application of isotopic reactive transport models to decipher hydrologic and biogeochemical processes The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals. School Social Work: National Perspectives on Practice in Schools aligns with the SSWAA national model. The book approaches diversity from an intersectionality perspective, accounting for the experiences of students based on differences such as sexuality, race, and gender. Authors from across the U.S. provide a national overview of the profession.

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