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Leading and Managing in Nursing - Revised Reprint Handbook of Research on Artificial Intelligence Applications in the Aviation and Aerospace Industries Research Anthology on Instilling Social Justice in the Classroom The Perfect Slime Eurasian Empires in Antiquity and the Early Middle Ages Entrepreneurial Marketing Elicitation Resurgent Asia Brugada Phenocopy Sustainable Urban Tourism in Sub-Saharan Africa Bacterial Resistance to Antibiotics Camel Clinical Biochemistry and Hematology Vaccine Design Neotropical Diversification: Patterns and Processes Reference Materials in Measurement and Technology The Atlantic Forest Metformin: Beyond Diabetes Intimate Partner Violence and the LGBT+ Community Safety and Reliability – Safe Societies in a Changing World Conceptions of Giftedness and Talent Green Techniques for Organic Synthesis and Medicinal Chemistry Emerging Writing Research from the Russian Federation Predictability of Weather and Climate Advances in RAMS Engineering Advances in Fluid and Thermal Engineering The Dock and Harbour Authority Lake Chilwa Peptide Self-Assembly Data-Centric Business and Applications Strengthening Forensic Science in the United States Persistent Organic Pollutants Counterflows Orthopaedic Simulation Molecular, Genetic, and Nutritional Aspects of Major and Trace Minerals IEA International Computer and Information Literacy Study 2018 Assessment Framework The EDM Handbook Handbook of Biofuels Fatigue and Fracture of Nanostructured Materials Travesti Instructional Supervision

This book comprises select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book gives an overview of recent developments in the field of thermal and fluid engineering, and covers theoretical and experimental fluid dynamics, numerical methods in heat transfer and fluid mechanics, different modes of heat transfer, multiphase transport and phase change, fluid machinery, turbo machinery, and fluid power. The book is primarily intended for researchers and professionals working in the field of fluid dynamics and thermal engineering. The issue of social justice has been brought to the forefront of society within recent years, and educational institutions have become an integral part of this critical conversation. Classroom settings are expected to take part in the promotion of inclusive practices and the development of culturally proficient environments that provide equal and effective education for all students regardless of race, gender, socio-economic status, and disability, as well as from all walks of life. The scope of these practices finds itself rooted in curriculum, teacher preparation, teaching practices, and pedagogy in all educational environments. Diversity within school administrations, teachers, and students has led to the need for socially just practices to become the norm for the progression and advancement of education worldwide. In a modern society that is fighting for the equal treatment of all individuals, the classroom must be a topic of discussion as it stands as a root of the problem and can be a major step in the right direction moving forward. Research Anthology on Instilling Social Justice in the Classroom is a comprehensive reference source that provides an overview of social justice and its role in education ranging from concepts and theories for inclusivity, tools, and technologies for teaching diverse students, and the implications of having culturally competent and diverse classrooms. The chapters dive deeper into the curriculum choices, teaching theories, and student experience as teachers strive to instill social justice learning methods within their classrooms. These topics span a wide range of subjects from STEM to language arts, and within all types of climates: PK-12, higher education, online or in-person instruction, and classrooms across the globe. This book is ideal for in-service and preservice teachers, administrators, social justice researchers, practitioners, stakeholders, researchers, academicians, and students interested in how social justice is currently being implemented in all aspects of education. In this dramatic and compelling narrative, anthropologist Don Kulick follows the lives of a group of transgendered prostitutes (called travestis in Portuguese) in the Brazilian city Salvador. Travestis are males who, often beginning at ages as young as ten, adopt female names, clothing styles, hairstyles, and linguistic pronouns. More dramatically, they ingest massive doses of female hormones and inject up to twenty liters of industrial silicone into their bodies to create breasts, wide hips, and large thighs and buttocks. Despite such irreversible physiological changes, virtually no travesti identifies herself as a woman. Moreover, travestis regard any male who does so as mentally disturbed. Kulick analyzes the various ways travestis modify their bodies, explores the motivations that lead them to choose this particular gendered identity, and examines the complex relationships that they maintain with one another, their boyfriends, and their families. Kulick also looks at how travestis earn their living through prostitution and discusses the reasons prostitution, for most travestis, is a positive and affirmative experience. Arguing that transgenderism never occurs in a "natural" or arbitrary form, Kulick shows how it is created in specific social contexts and assumes specific social forms. Furthermore, Kulick suggests that travestis—far from deviating from normative gendered expectations—may in fact distill and perfect the messages that give meaning to gender throughout Brazilian society and possibly throughout much of Latin America. Through Kulick's engaging voice and sharp analysis, this elegantly rendered account is not only a landmark study in its discipline but also a fascinating read for anyone interested in sexuality and gender. This open access book presents the assessment framework for IEA's International Computer and Information Literacy Study (ICILS) 2018, which is designed to assess how well students are prepared for study, work and life in a digital world. The study measures international differences in students' computer and information literacy (CIL): their ability to use computers to investigate, create, participate and communicate at home, at school, in the workplace and in the community. Participating countries also

have an option for their students to complete an assessment of computational thinking (CT). The ICILS assessment framework articulates the basic structure of the study, providing a description of the field and the constructs to be measured. This book outlines the design and content of the measurement instruments, sets down the rationale for those designs, and describes how measures generated by those instruments relate to the constructs. Hypothesized relations between constructs provide the foundation for some of the analyses that follow. Above all, the framework links ICILS to other similar research, enabling the contents of this assessment framework to combine theory and practice in an explication of both the 'what' and the 'how' of ICILS. With the emergence of smart technology and automated systems in today's world, artificial intelligence (AI) is being incorporated into an array of professions. The aviation and aerospace industry, specifically, is a field that has seen the successful implementation of early stages of automation in daily flight operations through flight management systems and autopilot. However, the effectiveness of aviation systems and the provision of flight safety still depend primarily upon the reliability of aviation specialists and human decision making. The Handbook of Research on Artificial Intelligence Applications in the Aviation and Aerospace Industries is a pivotal reference source that explores best practices for AI implementation in aviation to enhance security and the ability to learn, improve, and predict. While highlighting topics such as computer-aided design, automated systems, and human factors, this publication explores the enhancement of global aviation security as well as the methods of modern information systems in the aeronautics industry. This book is ideally designed for pilots, scientists, engineers, aviation operators, air crash investigators, teachers, academicians, researchers, and students seeking current research on the application of AI in the field of aviation. This volume details methods and protocols on b-sheet assemblies and collagen. Divided into three parts chapters focus on expanding use of solid-state NMR as a powerful method to enhance structural understanding of self-assembled peptide materials, methods for the design, synthesis, and application of self-assembled peptide materials, and structural and mechanistic analyses of pathological amyloid systems that provide novel ways to assess function of the various possible aggregates as well to determine how the structure of these materials correlates to function/dysfunction in the biological context. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Peptide Self-Assembly: Methods and Protocols aims to capture modern methods that span the breadth of the exciting and expanding field of peptide self-assembly. One key for success for an entrepreneur is to obtain sales (revenue) and profits as quickly as possible upon launching the venture. Entrepreneurial Marketing focuses on this and the essential elements of success in order to achieve these needed sales and revenues and then grow the company. The authors build a comprehensive, state-of-the-art picture of entrepreneurial marketing issues, providing major theoretical and empirical evidence that offers a clear, concise view of the field. Through an international approach that combines both theoretical and empirical knowledge on entrepreneurship and marketing, this book informs and enhances an entrepreneurs' creativity, their ability to bring innovations to the market and their willingness to face risk and change the world. Key components addressed include: identifying and selecting the market, determining the consumer needs cost-effectively, executing the basic elements of the marketing mix (product, price, distribution, and promotion) and competing successfully in the domestic and global markets by implementing a sound marketing plan. Numerous illustrative examples bring the content to life. The mix of theoretical content, examples, empirical analyses and case studies, make this book an excellent resource for students, professors, researchers, practitioners, and policymakers all over the world. This book surveys reliability, availability, maintainability and safety (RAMS) analyses of various engineering systems. It highlights their role throughout the lifecycle of engineering systems and explains how RAMS activities contribute to their efficient and economic design and operation. The book discusses a variety of examples and applications of RAMS analysis, including: • software products; • electrical and electronic engineering systems; • mechanical engineering systems; • nuclear power plants; • chemical and process plants and • railway systems. The wide-ranging nature of the applications discussed highlights the multidisciplinary nature of complex engineering systems. The book provides a quick reference to the latest advances and terminology in various engineering fields, assisting students and researchers in the areas of reliability, availability, maintainability, and safety engineering. An updated overview of the rapidly developing field of green techniques for organic synthesis and medicinal chemistry Green chemistry remains a high priority in modern organic synthesis and pharmaceutical R&D, with important environmental and economic implications. This book presents comprehensive coverage of green chemistry techniques for organic and medicinal chemistry applications, summarizing the available new technologies, analyzing each technique's features and green chemistry characteristics, and providing examples to demonstrate applications for green organic synthesis and medicinal chemistry. The extensively revised edition of Green Techniques for Organic Synthesis and Medicinal Chemistry includes 7 entirely new chapters on topics including green chemistry and innovation, green chemistry metrics, green chemistry and biological drugs, and the business case for green chemistry in the generic pharmaceutical industry. It is divided into 4 parts. The first part introduces readers to the concepts of green chemistry and green engineering, global environmental regulations, green analytical chemistry, green solvents, and green chemistry metrics. The other three sections cover green catalysis, green synthetic techniques, and green techniques and strategies in the pharmaceutical industry. Includes more than 30% new and updated material—plus seven brand new chapters Edited by highly regarded experts in the field (Berkeley Cue is one of the fathers of Green Chemistry in Pharma) with backgrounds in academia and industry Brings together a team of international authors from academia, industry, government agencies, and consultancies (including John Warner, one of the founders of the field of Green Chemistry) Green Techniques for Organic Synthesis and Medicinal Chemistry, Second Edition is an essential resource on green chemistry technologies for academic researchers, R&D professionals, and students working in organic chemistry and medicinal chemistry. This book describes

the main approaches for production and synthesis of nanostructured metals and alloys, taking into account the fatigue behavior of materials in additive manufactured components. Depending on the material type, form, and application, a deep discussion of fatigue properties and crack behavior is also provided. Pure nanostructured metals, complex alloys and composites are further considered. Prof. Cavaliere's examination is supported by the most up-to-date understanding from the scientific literature along with a thorough presentation of theory. Bringing together the widest range of perspective on its topic, the book is ideal for materials researchers, professional engineers in industry, and students interested in nanostructured materials, fracture/fatigue mechanics, and additive manufacturing. Describes in detail the relevance of nanostructures in additive manufacturing technologies; Includes sufficient breadth and depth on theoretical modelling of fatigue and crack behavior for use in the classroom; Identifies many open questions regarding different theories through experimental finding; Contextualizes the latest scientific results for readers in industry. *Leading and Managing in Nursing, 5th Edition -- Revised Reprint* by Patricia Yoder-Wise successfully blends evidence-based guidelines with practical application. This revised reprint has been updated to prepare you for the nursing leadership issues of today and tomorrow, providing just the right amount of information to equip you with the tools you need to succeed on the NCLEX and in practice. Content is organized around the issues that are central to the success of professional nurses in today's constantly changing healthcare environment, including patient safety, workplace violence, consumer relationships, cultural diversity, resource management, and many more. "... apt for all nursing students and nurses who are working towards being in charge and management roles." Reviewed by Jane Brown on behalf of *Nursing Times*, October 2015 Merges theory, research, and practical application for an innovative approach to nursing leadership and management. Practical, evidence-based approach to today's key issues includes patient safety, workplace violence, team collaboration, delegation, managing quality and risk, staff education, supervision, and managing costs and budgets. Easy-to-find boxes, a full-color design, and new photos highlight key information for quick reference and effective study. Research and Literature Perspective boxes summarize timely articles of interest, helping you apply current research to evidence-based practice. Critical thinking questions in every chapter challenge you to think critically about chapter concepts and apply them to real-life situations. Chapter Checklists provide a quick review and study guide to the key ideas in each chapter, theory boxes with pertinent theoretical concepts, a glossary of key terms and definitions, and bulleted lists for applying key content to practice. NEW! Three new chapters - *Safe Care: The Core of Leading and Managing*, *Leading Change*, and *Thriving for the Future* - emphasize QSEN competencies and patient safety, and provide new information on strategies for leading change and what the future holds for leaders and managers in the nursing profession. UPDATED! Fresh content and updated references are incorporated into many chapters, including *Leading, Managing and Following*; *Selecting, Developing and Evaluating Staff*; *Strategic Planning, Goal Setting, and Marketing*; *Building Teams Through Communication and Partnerships*; and *Conflict: The Cutting Edge of Change*. *Need to Know Now* bulleted lists of critical points help you focus on essential research-based information in your transition to the workforce. Current research examples in *The Evidence* boxes at the end of each chapter illustrate how to apply research to practice. Revised *Challenge and Solutions* case scenarios present real-life leadership and management issues you'll likely face in today's health care environment. Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. The book covers in particular state-of-the-art scientific research about product quality control and related health and environmental safety topics, including human, animal and plant safety assurance issues. These conference proceedings provide contemporary information on the general theoretical, metrological and practical issues of the production and application of reference materials. Reference materials play an integral role in physical, chemical and related type of measurements, ensuring their uniformity, comparability and the validity of quantitative analysis as well as, as a result, the objectivity of decisions concerning the elimination of technical barriers in commercial and economic, scientific and technical and other spheres of cooperation. The book is intended for researchers and practitioners in the field of chemistry, metrologists, technical physics, as well as for specialists in analytical laboratories, or working for companies and organizations involved in the production, distribution and use of reference materials. *Molecular, Genetic, and Nutritional Aspects of Major and Trace Minerals* is a unique reference that provides a complete overview of the non-vitamin micronutrients, including calcium, copper, iodine, iron, magnesium, manganese, molybdenum, phosphorus, potassium, selenium, sodium, and zinc. In addition, the book covers the nutritional and toxicological properties of nonessential minerals chromium, fluoride and boron, and silicon and vanadium, as well as ultra-trace minerals and those with no established dietary requirement for humans. Users will find in-depth chapters on each essential mineral and mineral metabolism, along with discussions of dietary recommendations in the United States and around the world. Presents the only scientific reference to cover all of the nutritionally relevant essential major and trace

minerals Provides a broad introductory chapter on each mineral to give readers valuable background and context Clarifies the cellular and molecular aspects of each mineral and its genetic and genomic aspects Includes coverage of all nutritionally relevant minerals—essential major trace minerals and ultra-trace minerals Underscores the important interactions between minerals so readers learn how metabolism of one mineral influences another Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making. Handbook of Biofuels looks at the many new developments in various type of bioenergy, along with the significant constraints in their production and/or applications. Beyond introducing current approaches and possible future directions of research, this title covers sources and processing of raw materials to downstream processing, constraints involved and research approaches to address and overcome these needs. Different combinations of products from the biorefinery are included, along with the material to answer questions surrounding the optimum process conditions for conversion of different feedstocks to bioenergy, the basis for choosing conversion technology, and what bioenergy products make economic sense. With chapters on the techno-economic analysis of biofuel production and concepts and step-by-step approaches in bioenergy processing, the objective of this book is to present a comprehensive and all-encompassing reference about bioenergy to students, teachers, researchers and professionals. Reviews all existing and emerging technologies surrounding the production of advanced biofuels, including biodiesel and bioethanol Includes biofuel applications with compatible global application case studies Offers new pathways for converting biomass This work brings together a wealth of data regarding the reference values and factors of variation in biochemical parameters used by camel veterinarians and scientists to determine these animals' nutritional and clinical status. It also explores several technical aspects involved in determining these parameters, sampling procedures, and essential elements in the interpretation of the results. Though many texts are available on small and large ruminants, much less is known about species confined to the marginal zones of tropical and Mediterranean countries, such as camels. This book addresses precisely this research gap, on the one hand by presenting an extensive review of the literature, and on the other by synthesizing the outcomes of the authors' numerous previous works. In veterinary medicine, blood tests to help diagnose diseases in cattle were first proposed nearly a century ago, but were mainly developed in the 1960s, initially at specialized research or veterinary services laboratories, and eventually, with the advent of new equipment and the miniaturization of the analyzers, finding their way into veterinarians' cabinets. Beyond their diagnostic value, veterinary surgeons and zootechnicians also speculated on the potential use of blood tests to evaluate animals' nutritional status. Thus, a whole range of analyses are now proposed to the stakeholders responsible for animal health. Such analyses could help to define a metabolic profile, which would offer a valuable decision-making tool for experts and researchers alike. The simulation has occupied an increasingly important place in the teaching of surgery. This way of learning allows students to work in a controlled environment and progress on a learning curve before starting a real simulation. In orthopaedic surgery, several models are used such as plastic models and cadaveric models. The high cost of these models opens the door to the use 3D simulation which offers learners the opportunity to repeat the exercise several times and to reach the acceptable level without damaging the model. The mastery of rapidly evolving surgical techniques requires a long period of rigorous training. For that purpose, we need innovation in health care, as well as in orthopaedics, to address the challenges and the trends through creative approaches. Today, the realization of orthopaedic simulators becomes possible with the contribution of new technologies. In fact, many more years are needed in order to reach the maturity and efficiency desired. In this article, some questions must be answered such as: What are the strategies? How can we create a grateful environment to innovate? What are the essential factors to advance orthopaedic training? Resurgent Asia analyses the phenomenal transformation of Asia, which would have been difficult to imagine, let alone predict, fifty years ago, when Gunnar Myrdal published Asian Drama. In doing so, it provides an analytical narrative of this remarkable story of economic development, situated in its wider context of historical, political, and social factors, and an economic analysis of the underlying factors, with a focus on critical issues in the process of, and outcomes in, development. In 1970, Asia was the poorest continent in the world, marginal except for its large population. By 2016, it accounted for three-tenths of world income, two-fifths of world manufacturing, and one-third of world trade, while its income per capita converged towards the world average. However, this transformation was associated with unequal outcomes across countries and between people. The analysis disaggregates Asia into its four constituent sub-regions--East, Southeast, South, and West--and further into fourteen economies--China, India, South Korea, Indonesia, Turkey, Taiwan, Thailand, Philippines, Malaysia, Singapore, Pakistan, Bangladesh, Vietnam, and Sri Lanka--which account for more than four-fifths of its population and income. This book enhances our understanding of development

processes and outcomes in Asia over the past fifty years, draws out the analytical conclusions that contribute to contemporary debates on development, and highlights some lessons from the Asian experience for countries elsewhere. It is the first to examine the phenomenal changes that are transforming economies in Asia and shifting the balance of economic power in the world, while reflecting on the future prospects in Asia over the next twenty-five years. A rich, engaging, and fascinating read. This book brings together eminent and emerging scholars to present cutting-edge research on diverse conceptions of giftedness and talent from a range of international perspectives. It covers classical views, emphasizing IQ, but also seeks to move the academic debate on from the common exclusive emphasis on IQ-based skills. In each chapter the contributors address both theoretical advances and practical applications for administrators, teachers, and parents. The editors conclude by integrating the different points of view and showing ways in which major ideas, even when given different names, can be integrated to provide a holistic and integral viewpoint on giftedness and talent. This book will appeal to students and scholars of creativity, giftedness and gifted education; as well as to practitioners, teachers and education policymakers. This text provides a practical guide providing step-by-step protocol to design and develop vaccines. Chapters detail protocols for developing novel vaccines against infectious bacteria, viruses, fungi, and parasites for humans and animals. Volume 2: Vaccines for Veterinary Diseases includes vaccines for farm animals and fishes, vaccine vectors and production, vaccine delivery systems, vaccine bioinformatics, vaccine regulation and intellectual property. Written for the Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccine Design: Methods and Protocols, Volume 2: Vaccines for Veterinary Diseases aims to ensure successful results in the further study of this vital field. The Atlantic Forest is one of the 36 hotspots for biodiversity conservation worldwide. It is a unique, large biome (more than 3000 km in latitude; 2500 in longitude), marked by high biodiversity, high degree of endemic species and, at the same time, extremely threatened. Approximately 70% of the Brazilian population lives in the area of this biome, which makes the conflict between biodiversity conservation and the sustainability of the human population a relevant issue. This book aims to cover: 1) the historical characterization and geographic variation of the biome; 2) the distribution of the diversity of some relevant taxa; 3) the main threats to biodiversity, and 4) possible opportunities to ensure the biodiversity conservation, and the economic and social sustainability. Also, it is hoped that this book can be useful for those involved in the development of public policies aimed at the conservation of this important global biome. Intimate Partner Violence is a serious social problem affecting millions in the United States and worldwide. The image of violence enacted by a male aggressor to a female victim dominates public perceptions of intimate partner violence (IPV). This volume examines how this heteronormativity influences reporting and responding to partner violence when those involved do not fit the stereotype of a typical victim of IPV. Research and theory have helped us to understand power dynamics about heterosexual IPV; this book encourages greater attention to the unique issues and power dynamics of IPV in sexual minority populations. Divided into five distinct sections, chapters address research and theories associated with IPV, examining the similarities and differences of IPV within heterosexual and gender minority relationships. Among the topics discussed: Research methodology and scope of the problem Primary prevention and intervention of IPV among sexual and gender minorities Barriers to help-seeking among various populations Promoting outreach and advocacy Criminal justice response to IPV With recommendations for intervention and prevention, criminal justice response and policy, Intimate Partner Violence and the LGBT+ Community: Understanding Power Dynamics will be of use to students, researchers, and practitioners of psychology, criminal justice, and public policy. Brugada Phenocopy: The Art of Recognizing the Brugada ECG Pattern details all aspects associated with alternative diagnosis to Brugada Syndrome (BrS). Coverage includes how to identify the proper ECG pattern, what to do to investigate for BrP, and how to avoid misinterpretations and the use of unnecessary and expensive treatments. Chapters are written by experienced professionals, many of whom are colleagues that initially described this condition. This easy to use volume is a must have reference for researchers of cardiology, cardiologists, electrocardiologists, internists, emergency care doctors and students, residents and fellows. Assists in the proper recognition of the Brugada ECG patterns and how to distinguish true BrS from other conditions with identical ECG Expands understanding on how to properly recognize the ECG of Brugada patterns Contains access to a companion website with video to enhance understanding of proper measurement of the beta angle (Chevallier) and the base of the triangle (Serra) AN AUTHORITATIVE SURVEY OF CURRENT RESEARCH INTO CLINICALLY USEFUL CONVENTIONAL AND NONCONVENTIONAL ANTIBIOTIC THERAPEUTICS Pharmaceutically-active antibiotics revolutionized the treatment of infectious diseases, leading to decreased mortality and increased life expectancy. However, recent years have seen an alarming rise in the number and frequency of antibiotic-resistant "Superbugs." The Centers for Disease Control and Prevention (CDC) estimates that over two million antibiotic-resistant infections occur in the United States annually, resulting in approximately 23,000 deaths. Despite the danger to public health, a minimal number of new antibiotic drugs are currently in development or in clinical trials by major pharmaceutical companies. To prevent reverting back to the pre-antibiotic era—when diseases caused by parasites or infections were virtually untreatable and frequently resulted in death—new and innovative approaches are needed to combat the increasing resistance of pathogenic bacteria to antibiotics. Bacterial Resistance to Antibiotics – From Molecules to Man examines the current state and future direction of research into developing clinically-useful next-generation novel antibiotics. An internationally-recognized team of experts cover topics including glycopeptide antibiotic resistance, anti-tuberculosis agents, anti-virulence therapies, tetracyclines, the molecular and structural determinants of resistance, and more. Presents a multidisciplinary approach for the optimization of novel antibiotics for maximum potency, minimal toxicity, and appropriated degradability Highlights critical aspects that may relieve the problematic medical situation of antibiotic resistance Includes an overview of the genetic and molecular

mechanisms of antibiotic resistance Addresses contemporary issues of global public health and longevity Includes full references, author remarks, and color illustrations, graphs, and charts Bacterial Resistance to Antibiotics – From Molecules to Man is a valuable source of up-to-date information for medical practitioners, researchers, academics, and professionals in public health, pharmaceuticals, microbiology, and related fields. The topic of predictability in weather and climate has advanced significantly in recent years, both in understanding the phenomena that affect weather and climate and in techniques used to model and forecast them. This book, first published in 2006, brings together some of the world's leading experts on predicting weather and climate. It addresses predictability from the theoretical to the practical, on timescales from days to decades. Topics such as the predictability of weather phenomena, coupled ocean-atmosphere systems and anthropogenic climate change are among those included. Ensemble systems for forecasting predictability are discussed extensively. Ed Lorenz, father of chaos theory, makes a contribution to theoretical analysis with a previously unpublished paper. This well-balanced volume will be a valuable resource for many years. High-calibre chapter authors and extensive subject coverage make it valuable to people with an interest in weather and climate forecasting and environmental science, from graduate students to researchers. A comparative and interdisciplinary study of ancient and medieval Eurasian empires using historical, philological and archaeological evidence. This book provides a comprehensive overview of the patterns of biodiversity in various neotropical ecosystems, as well as a discussion on their historical biogeographies and underlying diversification processes. All chapters were written by prominent researchers in the fields of tropical biology, molecular ecology, climatology, paleoecology, and geography, producing an outstanding collection of essays, synthetic analyses, and novel investigations that describe and improve our understanding of the biodiversity of this unique region. With chapters on the Amazon and Caribbean forests, the Atlantic rainforests, the Andes, the Cerrado savannahs, the Caatinga drylands, the Chaco, and Mesoamerica – along with broad taxonomic coverage – this book summarizes a wide range of hypotheses, views, and methods concerning the processes and mechanisms of neotropical diversification. The range of perspectives presented makes the book a truly comprehensive, state-of-the-art publication on the topic, which will fascinate both scientists and general readers alike. Leonard C. Beadle In contrast to the more stable oceans, inland waters are, on the geological time scale, short-lived and are subject to great fluctuations in chemical composition and physical features. Very few lakes and rivers have existed continuously for more than a million years, and the life of the majority is to be measured in thousands or less. Earth movements, erosion and long-term climatic changes in the past have caused many of them to appear and disappear. No wonder then that most freshwater organisms are especially adapted to great changes and many even to temporary extinction of their environment. Recent studies of residual sediments from existing and extinct lakes in tropical Africa have told us much about their age and the past history of their faunas and floras, from which we may deduce something about the climate and the conditions in the water in the past. The forces that have formed and moulded the African Great Lakes have been catastrophic in their violence and effects. They are not yet finished, but the present rate of change is, in human terms, too slow for direct observation of the ecological effects. The large man-made lakes are providing very good opportunities for studying the chemical and biological consequences of the initial filling but, once filled, they are artificially protected against major fluctuations. "This edited collection presents research on the development of writing studies in the Russian Federation. Topics covered include the history of writing in Russian education, the process by which international models have been incorporated over the past decade, the role of English, the current needs of faculty and student writers in Russia, and the development of local solutions"-- Building on the authors' previous work, this book addresses key processes and procedures used in information/data processing and management. Modern methods of business information processing, which draw on artificial intelligence, big data, and cloud-based storage and processing, are opening exciting new opportunities for doing business on the basis of information technologies. Thus, in this third book, the authors continue to explore various aspects – technological as well as business and social – of the information industries. Further, they analyze the challenges and opportunities entailed by these kinds of business. The Perfect Slime presents the latest state of knowledge and all aspects of the Extracellular Polymeric Substances, (EPS) matrix – from the ecological and health to the antifouling perspectives. The book brings together all the current material in order to expand our understanding of the functions, properties and characteristics of the matrix as well as the possibilities to strengthen or weaken it. The EPS matrix represents the immediate environment in which biofilm organisms live. From their point of view, this matrix has paramount advantages. It allows them to stay together for extended periods and form synergistic microconsortia, it retains extracellular enzymes and turns the matrix into an external digestion system and it is a universal recycling yard, it protects them against desiccation, it allows for intense communication and represents a huge genetic archive. They can remodel their matrix, break free and eventually, they can use it as a nutrient source. The EPS matrix can be considered as one of the emergent properties of biofilms and are a major reason for the success of this form of life. Nevertheless, they have been termed the "black matter of biofilms" for good reasons. First of all: the isolation methods define the results. In most cases, only water soluble EPS components are investigated; insoluble ones such as cellulose or amyloids are much less included. In particular in environmental biofilms with many species, it is difficult to impossible isolate, separate the various EPS molecules they are encased in and to define which species produced which EPS. The regulation and the factors which trigger or inhibit EPS production are still very poorly understood. Furthermore: bacteria are not the only microorganisms to produce EPS. Archaea, Fungi and algae can also form EPS. This book investigates the questions, What is their composition, function, dynamics and regulation? What do they all have in common? This book investigates urban tourism development in Sub-Saharan Africa, highlighting the challenges and risks involved, but also showcasing the potential benefits. Whilst much is written on Africa's rural environments, little has been written about the tourism potential of the vast natural, cultural and historical resources in the continent's urban areas. Yet these opportunities also come with considerable environmental, social and political

challenges. This book interrogates the interactions between urban risks, tourism and sustainable development in Sub-Saharan African urban spaces. It addresses the underlying issues of governance, power, ownership, collaboration, justice, community empowerment and policies that influence tourism decision-making at local, national and regional levels. Interrogating the intricate relationships between tourism stakeholders, this book ultimately reflects on how urban risk can be mitigated, and how sustainable urban tourism can be harnessed for development. The important insights in this book will be of interest to researchers and practitioners across Tourism, Geography, Urban Development, and African Studies. The first edition of *Instructional Supervision: Applying Tools and Concepts* was highly regarded by both professors and students for its practicality and its - - coverage of tools & strategies to help supervisors work effectively with teachers.- up-to-date approach to clinical supervision which includes teacher portfolios, action research, peer coaching, and other innovative practices.- authentic case studies, classroom examples, field experiences, prompts for reflection, and pragmatic tips.The second edition retains all of these features and goes further by offering -- a comprehensive collection of classroom observation tools.- a new chapter on confronting marginal teaching. - expanded coverage of professional development & its link to teacher evaluation.- extended ELCC-based self-assessment activities for students to help them master the entire cycle of clinical supervision and the development of professional growth plans. Counterflows play important roles in nature and technology. This book discusses the development of counterflows and the physical mechanisms that drive them. This book is about elicitation: the facilitation of the quantitative expression of subjective judgement about matters of fact, interacting with subject experts, or about matters of value, interacting with decision makers or stakeholders. It offers an integrated presentation of procedures and processes that allow analysts and experts to think clearly about numbers, particularly the inputs for decision support systems and models. This presentation encompasses research originating in the communities of structured probability elicitation/calibration and multi-criteria decision analysis, often unaware of each other's developments. Chapters 2 through 9 focus on processes to elicit uncertainty from experts, including the Classical Method for aggregating judgements from multiple experts concerning probability distributions; the issue of validation in the Classical Method; the Sheffield elicitation framework; the IDEA protocol; approaches following the Bayesian perspective; the main elements of structured expert processes for dependence elicitation; and how mathematical methods can incorporate correlations between experts. Chapters 10 through 14 focus on processes to elicit preferences from stakeholders or decision makers, including two chapters on problems under uncertainty (utility functions), and three chapters that address elicitation of preferences independently of, or in absence of, any uncertainty elicitation (value functions and ELECTRE). Two chapters then focus on cross-cutting issues for elicitation of uncertainties and elicitation of preferences: biases and selection of experts. Finally, the last group of chapters illustrates how some of the presented approaches are applied in practice, including a food security case in the UK; expert elicitation in health care decision making; an expert judgement based method to elicit nuclear threat risks in US ports; risk assessment in a pulp and paper manufacturer in the Nordic countries; and elicitation of preferences for crop planning in a Greek region. Persistent Organic Pollutants (POPs) are chemicals that resist environmental degradation and cause deleterious effects on the environment and human wellbeing. Once released into the environment they can travel long distances and persist for longer duration. This book highlights the complex area of POPs in simple language and deals with the fundamentals of the chemicals, their sources, and impacts on human health. The book also unfolds several other aspects like new and advanced analytical detection methods, gaps in management, effectiveness of the Stockholm convention, and the role of the global monitoring plan on POPs for crucial and holistic understanding about POPs. It also investigates how to minimize the impact of POPs and the major gaps and challenges in sound management of POPs. With its comprehensive approach, this book is an indispensable source of knowledge for those studying and working to mitigate the effect of POPs in the environment.

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