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The Charter School Solution Tara L. Affolter 2016-06-10 Challenging the popular perception that the free market can objectively ameliorate inequality and markedly improve student academic achievement, this book examines the overly positivistic rhetoric surrounding charter schools. Taking a multifocal approach, this book examines how charter schools reproduce inequality in public education. By linking charter schools to broader social issues and political economic factors, such as neoliberalism, race, and class, *The Charter School Solution* presents a more complete and nuanced assessment of charter schools in the context of the American public education system.

Biocompatibility and Performance of Medical Devices Jean-Pierre Boutrand 2019-11-21 *Biocompatibility and Performance of Medical Devices, Second Edition*, provides an understanding of the biocompatibility and performance tests for ensuring that biomaterials and medical devices are safe and will perform as expected in the biological environment. Sections cover key concepts and challenges faced in relation to biocompatibility in medical devices, discuss the evaluation and characterization of biocompatibility in medical devices, describe preclinical performance studies for bone, dental and soft tissue implants, and provide information on the regulation of medical devices in the European Union, Japan and China. The book concludes with a review of histopathology principles for

biocompatibility and performance studies. Presents diverse insights from experts in government, industry and academia Delivers a comprehensive overview of testing and interpreting medical device performance Expanded to include new information, including sections on managing extractables, accelerating and simplifying medical device development through screening and alternative biocompatibility methods, and quality strategies which fasten device access to market

Solutions 3e Upper-Intermediate Pack Component Paul Davies 2017-03-23 Nine units per student book, each with eight lessons A broad range of lesson types focusing on key skills, including vocabulary, grammar, reading, speaking, and writing, all with 100% new content NEW listening and word skills lessons help develop confident communicators Exam skills trainer sections prepare students for typical school-leaving/Cambridge tasks, and provide them with the language, strategies, and exam skills they need to achieve success Extra speakingtask sections provide additional opportunities for speaking practice Grammar builder pages with each unit provide extra practice exercises for students who need additional support Grammar reference pages allow learners to check grammar rules Vocabulary builder with each unit allows students to learnand practice new vocabulary Culture Bank includes 9 ready-to-use culture lessons linked to the topic and language of the main units, providing extra reading and listening practice

Stem Cells—Advances in Research and Application: 2013 Edition

2013-06-16 Stem Cells—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Adult Stem Cells. The editors have built Stem Cells—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Adult Stem Cells in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Stem Cells—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Field Book for Describing and Sampling Soils Philip J. Schoeneberger 2012 NOTE: NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT -- OVERSTOCK SALE -- Significantly reduced list price Summarizes and updates the current National Cooperative Soil Survey conventions for describing soils. Intended to be both current and usable by the entire soil science community. The text explores the types of soil techniques and includes a Field Equipment checklist with samples of common soil equipment as part of the field guide. Other related products: Keys to Soil Taxonomy (2014) can be found here: <https://bookstore.gpo.gov/products/sku/001-000-04761-2>

Keys to Soil Taxonomy, 2010 can be found here: <https://bookstore.gpo.gov/products/sku/001-000-04745-1>

Drainage Manual can be found here: <https://bookstore.gpo.gov/products/sku/024-003-00177-5> Converging Waters: Integrating Collaborative Modeling With Participatory Processes to Make Water Resources Decisions can be found here: <https://bookstore.gpo.gov/products/sku/008-022-00349-5>

Water Measurement Manual: A Guide to Effective Water Measurement Practices for Better Water Management can be found here: <https://bookstore.gpo.gov/products/sku/024-003-00215-1>

Ground Water Manual: A Guide for the Investigation, Development, and Management of Ground-Water Resources can be found here: <https://bookstore.gpo.gov/products/sku/024-003-00179-1>

Solutions: Pre-Intermediate: Student Book Tim Falla 2012-02-02

Solutions: Pre-Intermediate: Student Book Tim Falla 2012-02-02

Principles of Testing Electronic Systems Samiha Mourad 2000-07-25

A pragmatic approach to testing electronic systems As we move ahead in the electronic age, rapid changes in technology pose an ever-increasing number of challenges in testing electronic products. Many practicing engineers are involved in this arena, but few have a chance to study the field in a systematic way-learning takes place on the job. By covering the fundamental disciplines in detail, Principles of Testing Electronic Systems provides design engineers with the much-needed knowledge base. Divided into five major parts, this highly useful reference relates design and tests to the development of reliable electronic products; shows the main vehicles for design verification; examines designs that facilitate testing; and investigates how testing is applied to random logic, memories, FPGAs, and microprocessors. Finally, the last part offers coverage of advanced test solutions for today's very deep submicron designs. The authors take a phenomenological approach to the subject matter while providing readers with plenty of opportunities to explore the foundation in detail. Special features include: * An explanation of where a test belongs in the design flow * Detailed discussion of scan-path and ordering of scan-chains * BIST solutions for embedded logic and memory blocks * Test methodologies for FPGAs * A chapter on testing system on a chip * Numerous references

SQL Server 2012 Data Integration Recipes Adam Aspin 2013-01-26 SQL Server 2012 Data Integration Recipes provides focused and practical solutions to real world problems of data integration. Need to import data into SQL Server from an outside source? Need to export data and send it to another system? SQL Server 2012 Data Integration Recipes has your back. You'll find solutions for importing from Microsoft Office data stores such as Excel and Access, from text files such as CSV files, from XML, from other database brands such as Oracle and MySQL, and even from

other SQL Server databases. You'll learn techniques for managing metadata, transforming data to meet the needs of the target system, handling exceptions and errors, and much more. What DBA or developer isn't faced with the need to move data back and forth? Author Adam Aspin brings 10 years of extensive ETL experience involving SQL Server, and especially satellite products such as Data Transformation Services and SQL Server Integration Services. Extensive coverage is given to Integration Services, Microsoft's flagship tool for data integration in SQL Server environments. Coverage is also given to the broader range of tools such as OPENDATASOURCE, linked servers, OPENROWSET, Migration Assistant for Access, BCP Import, and BULK INSERT just to name a few. If you're looking for a resource to cover data integration and ETL across the gamut of Microsoft's SQL Server toolset, SQL Server 2012 Data Integration Recipes is the one book that will meet your needs. Provides practical and proven solutions towards creating resilient ETL environments Clearly answers the tough questions which professionals ask Goes beyond the tools to a thorough discussion of the underlying techniques Covers the gamut of data integration, beyond just SSIS Includes example databases and files to allow readers to test the recipes

Validity Assessment in Clinical Neuropsychological Practice Ryan W. Schroeder 2021-09-20 Practical and comprehensive, this is the first book to focus on noncredible performance in clinical contexts. Experts in the field discuss the varied causes of invalidity, describe how to efficiently incorporate validity tests into clinical evaluations, and provide direction on how to proceed when noncredible responding is detected. Thoughtful, ethical guidance is given for offering patient feedback and writing effective reports. Population-specific chapters cover validity assessment with military personnel; children; and individuals with dementia, psychiatric disorders, mild traumatic brain injury, academic disability, and other concerns. The concluding chapter describes how to appropriately engage in legal proceedings if a clinical case becomes forensic. Case examples and sample reports enhance the book's utility.

Building Services Design for Energy Efficient Buildings Paul Tymkow 2013-07-18 The role and influence of building services engineers is

undergoing rapid change and is pivotal to achieving low-carbon buildings. However, textbooks in the field have largely focused on the detailed technicalities of HVAC systems, often with little wider context. This book addresses that need by embracing a contemporary understanding of energy efficiency imperatives, together with a strategic approach to the key design issues impacting upon carbon performance, in a concise manner. The key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail. In addition, the following issues are addressed in turn: Background issues for sustainability and the design process Developing a strategic approach to energy-efficient design How to undertake load assessments System comparison and selection Space planning for services Post-occupancy evaluation of completed building services In order to deliver sustainable buildings, a new perspective is needed amongst building and services engineering designers, from the outset of the conceptual design stage and throughout the whole design process. In this book, students and practitioners alike will find the ideal introduction to this new approach.

Cognitive Abilities and Educational Outcomes Monica Rosén 2016-10-03 This book addresses problems and challenges that face educational measurement at a time when multipurpose usage of observational data from educational assessments, tests and international surveys has become a growing global trend. While the construction of educational measures and use of educational data offer many opportunities, they also require awareness of the numerous threats to validity and methods of reducing such threats. Written by leading international scholars, the book demonstrates the complexity of educational measurement by addressing three broad and interrelated topics. The first part discusses cognitive abilities, including studies on fluid intelligence, its improvement and its links to aptitude tests for admission to higher education. The second part focuses on the effects of school and teacher-related factors on school outcomes at individual and group levels, and uses international studies to analyze causes. The third part presents analytical techniques and measurement methods to improve reliability, for example factor analysis using Bayesian estimators, bi-factor analysis,

model misfit and solutions, and discusses balance issues in reporting test results. The book provides examples of state-of-the-art analytical techniques for pursuing fundamental research problems, and the latest advances in measurement methods, with a focus on validity improvement. Eminent researchers discuss and provide insights into questions such as: Is it possible to train individuals to think at a higher level than normal for their age? What determines prospective preschool teachers' skill to perceive mathematics-related preschool situations? Can international indicator design and instruments be improved to use trends and national context variables more efficiently? Can indicator data at national, school and class levels be compared easier? Are value-added measures of teacher effectiveness valid when it comes to hiring and promoting teachers? Is money better spent on teacher training than on smaller class-size? How do theory and empirical statistical data intertwine in building structures of understanding? This book is inspired by the career and personal influence of the Swedish scholar Professor Jan-Eric Gustafsson, renowned for his research on individual differences, especially the structure of cognitive abilities, and on the effects of education on knowledge and skills.

Better Health in Harder Times Davies, Celia 2012-11-14 For years the NHS has been the most trusted of public institutions and the envy of many around the world. But today there is turmoil. Painful shortcomings in clinical care and patient experience, together with funding cuts, threaten to dig deep into service levels and standards. Seventy years of technically advanced medicine provided free to the population has produced a widespread perception of patients as passive consumers of health care. This book explores how we may renew for our times the collective compact that created our public services in the 1940s. Voices from service users and service providers show how this can be done. They offer testimony of what goes wrong and what can be put right when working together becomes the norm. Sections explore new ways of living and working with long-term conditions, more meaningful and effective approaches to service redesign, use of information technology, leadership, co-production and creating and accounting for quality.

Accessible to a wide range of readers, with short, accessible contributions, this is a book to provoke and inspire.

Massachusetts General Hospital Handbook of General Hospital Psychiatry E-Book Theodore A. Stern 2017-08-09 For generations of practitioners, the Massachusetts General Hospital Handbook of General Hospital Psychiatry has been and is the "gold standard" guide to consultation-liaison psychiatry and psychosomatic medicine. The fully updated 7th Edition, by Drs. Theodore A. Stern, Oliver Freudenreich, Felicia A. Smith, Gregory L. Fricchione, and Jerrold F. Rosenbaum, provides an authoritative, easy-to-understand review of the diagnosis, evaluation, and treatment of psychiatric problems experienced by adults and children with medical and surgical conditions. Covers the psychological impact of chronic medical problems and life-threatening diseases, somatic symptom disorders, organ donors and recipients, pain, substance abuse, and polypharmacy, including a thorough review of drug actions and interactions, metabolism, and elimination. Features DSM-5 updates throughout, as well as case studies in every chapter. Contains practical tips on how to implement the most current and effective pharmacological therapies as well as cognitive-behavioral approaches.

Solution-Focused Counseling in Schools John J. Murphy 2015-01-29 The third edition of this widely adopted text covers the philosophical foundations and nuts-and-bolts of using solution-focused counseling to help preschool-12 students resolve problems. Dr. Murphy's practical and respectful approach has been successfully applied throughout the world by school counselors, counselors-in-training, psychologists, social workers, teachers, administrators, and clinicians who work with young clients. His empowering techniques help students focus on doing what works as simply and efficiently as possible by using their strengths, resources, wisdom, and feedback. This edition includes new chapters and information on the restrictive influence of problems, strategies for building positive relationships, collecting client feedback to monitor and improve services, and coconstructing solvable problems and reachable goals. Real-life case examples, sample dialog from counseling sessions, discussion and practice exercises, troubleshooting tips, and new and expanded

appendixes enhance the book's classroom and clinical utility. A complimentary test manual and PowerPoint slides for instructors' use are available by written request to ACA. *Requests for digital versions from the ACA can be found on wiley.com. *To request print copies, please visit the ACA website here. *Reproduction requests for material from books published by ACA should be directed to permissions@counseling.org.

Transformative Social Work Practice Erik M.P. Schott 2015-08-24 Transformative Social Work Practice presents an innovative and integrative approach towards critically reflective practice with an interweaving of micro, mezzo, and macro applications to real world demands. Authors Erik Schott and Eugenia L. Weiss explore issues commonly addressed by social workers, including health, mental health, addictions, schools, and family and community violence, while challenging assumptions and promoting ethically-driven, evidence-based practice perspectives to advocate for social justice and reduce disparities. The book is about redefining social work practice to meet the current and complex needs of diverse and vulnerable individuals, families, and communities in order to enhance their strengths in an era of unprecedented technological growth, globalization, and change.

Tietz Textbook of Laboratory Medicine - E-Book Nader Rifai 2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology! Tietz Textbook of Laboratory Medicine, 7th Edition provides the guidance necessary to select, perform, and evaluate the results of new and established laboratory tests. Comprehensive coverage includes the latest advances in topics such as clinical chemistry, genetic metabolic disorders, molecular diagnostics, hematology and coagulation, clinical microbiology, transfusion medicine, and clinical immunology. From a team of expert contributors led by Nader Rifai, this reference includes access to wide-ranging online resources on Expert Consult — featuring the comprehensive product with fully searchable text, regular content updates, animations, podcasts, over 1300 clinical case studies, lecture series, and more. Authoritative, current content helps you perform tests in a cost-effective, timely, and efficient manner; provides expertise in managing clinical laboratory needs; and shows how to be responsive to an

ever-changing environment. Current guidelines help you select, perform, and evaluate the results of new and established laboratory tests. Expert, internationally recognized chapter authors present guidelines representing different practices and points of view. Analytical criteria focus on the medical usefulness of laboratory procedures. Use of standard and international units of measure makes this text appropriate for any user, anywhere in the world. Expert Consult provides the entire text as a fully searchable eBook, and includes regular content updates, animations, podcasts, more than 1300 clinical case studies, over 2500 multiple-choice questions, a lecture series, and more. NEW! 19 additional chapters highlight various specialties throughout laboratory medicine. NEW! Updated, peer-reviewed content provides the most current information possible. NEW! The largest-ever compilation of clinical cases in laboratory medicine is included on Expert Consult. NEW! Over 100 adaptive learning courses on Expert Consult offer the opportunity for personalized education.

Electronic Commerce Efraim Turban 2015-01-29 Throughout the book, theoretical foundations necessary for understanding Electronic Commerce (EC) are presented, ranging from consumer behavior to the economic theory of competition. Furthermore, this book presents the most current topics relating to EC as described by a diversified team of experts in a variety of fields, including a senior vice president of an e-commerce-related company. The authors provide website resources, numerous exercises, and extensive references to supplement the theoretical presentations. At the end of each chapter, a list of online resources with links to the websites is also provided. Additionally, extensive, vivid examples from large corporations, small businesses from different industries, and services, governments, and nonprofit agencies from all over the world make concepts come alive in Electronic Commerce. These examples, which were collected by both academicians and practitioners, show the reader the capabilities of EC, its cost and justification, and the innovative ways corporations are using EC in their operations. In this edition (previous editions published by Pearson/Prentice Hall), the authors bring forth the latest trends in e-commerce, including social businesses,

social networking, social collaboration, innovations, and mobility.

Measures of Personality and Social Psychological Constructs

Gregory Boyle 2014-09-04 Measures of Personality and Social Psychological Constructs assists researchers and practitioners by identifying and reviewing the best scales/measures for a variety of constructs. Each chapter discusses test validity, reliability, and utility. Authors have focused on the most often used and cited scales/measures, with a particular emphasis on those published in recent years. Each scale is identified and described, the sample on which it was developed is summarized, and reliability and validity data are presented, followed by presentation of the scale, in full or in part, where such permission has been obtained. Measures fall into five broad groups. The emotional disposition section reviews measures of general affective tendencies, and/or cognitive dispositions closely linked to emotion. These measures include hope and optimism, anger and hostility, life satisfaction, self-esteem, confidence, and affect dimensions. Emotion regulation scales go beyond general dispositions to measure factors that may contribute to understanding and managing emotions. These measures include alexithymia, empathy, resiliency, coping, sensation seeking, and ability and trait emotional intelligence. The interpersonal styles section introduces some traditional social-psychological themes in the context of personality assessment. These measures include adult attachment, concerns with public image and social evaluation, and forgiveness. The vices and virtues section reflects adherence to moral standards as an individual characteristic shaped by sociocultural influences and personality. These measures include values and moral personality, religiosity, dark personalities (Machiavellianism, narcissism, and subclinical psychopathy), and perfectionism. The sociocultural interaction and conflict section addresses relationships between different groups and associated attitudes. These measures include cross-cultural values, personality and beliefs, intergroup contact, stereotyping and prejudice, attitudes towards sexual orientation, and personality across cultures. Encompasses 25 different areas of psychology research Each scale has validity, reliability info, info on test bias, etc Multiple scales discussed for

each construct Discussion of which scales are appropriate in which circumstances and to what populations Examples of scales included **Frontiers in Offshore Geotechnics III** Vaughan Meyer 2015-05-15 Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off **Testing Lecture Comprehension Through Listening-to-summarize Cloze Tasks** Haiping Wang 2017-09-06 This book explores the effectiveness of listen-to-summarize tasks as a tool to assess lecture comprehension ability. It especially focuses on listen-to-summarize tasks that represent listeners' meaning building and the discourse construction of the lecture for listening assessment purposes. It discusses in depth the nature of lecture comprehension and introduces the approaches to assessing it. It also presents teachers' and students' perceptions of listen-to-summarize task demands and their respective implications. By observing interactions between test-takers' cognitive processes and the task itself, the book explores the effectiveness of these tasks. It also examines the discrepancy in cognitive processes between different language competence levels in detail, shedding light upon current research on lecture comprehension assessment and offering insights into listening comprehension instruction.

Legislation in Europe Ulrich Karpen 2017-02-23 This book provides a practical handbook for legislation. Written by a team of experts, practitioners and scholars, it invites national institutions to apply its teachings in the context of their own drafting manuals and laws. Analysis focuses on general principles and best practice within the context of the different systems of government in Europe. Questions explored include subsidiarity, legitimacy, efficacy, effectiveness, efficiency, proportionality, monitoring and regulatory impact assessment. Taking a practical approach which starts from evidence-based rationality, it represents essential reading for all practitioners in the field of legislative drafting. The Oxford Handbook of Comparative Constitutional Law Michel Rosenfeld

2012-05-17 The field of comparative constitutional law has grown immensely over the past couple of decades. Once a minor and obscure adjunct to the field of domestic constitutional law, comparative constitutional law has now moved front and centre. Driven by the global spread of democratic government and the expansion of international human rights law, the prominence and visibility of the field, among judges, politicians, and scholars has grown exponentially. Even in the United States, where domestic constitutional exclusivism has traditionally held a firm grip, use of comparative constitutional materials has become the subject of a lively and much publicized controversy among various justices of the U.S. Supreme Court. The trend towards harmonization and international borrowing has been controversial. Whereas it seems fair to assume that there ought to be great convergence among industrialized democracies over the uses and functions of commercial contracts, that seems far from the case in constitutional law. Can a parliamentary democracy be compared to a presidential one? A federal republic to a unitary one? Moreover, what about differences in ideology or national identity? Can constitutional rights deployed in a libertarian context be profitably compared to those at work in a social welfare context? Is it perilous to compare minority rights in a multi-ethnic state to those in its ethnically homogeneous counterparts? These controversies form the background to the field of comparative constitutional law, challenging not only legal scholars, but also those in other fields, such as philosophy and political theory. Providing the first single-volume, comprehensive reference resource, the 'Oxford Handbook of Comparative Constitutional Law' will be an essential road map to the field for all those working within it, or encountering it for the first time. Leading experts in the field examine the history and methodology of the discipline, the central concepts of constitutional law, constitutional processes, and institutions - from legislative reform to judicial interpretation, rights, and emerging trends.

The Oxford Handbook of Treatment Processes and Outcomes in Psychology Sara Maltzman 2016 Advocates and models a multidisciplinary, biopsychosocial approach to psychological treatment

across the lifespan Promotes the communication of research and best practices across disciplines from primary sources Includes translational (animal to human) research models, in-depth coverage of areas that have extensive research bases, and provides foundation of research for cutting-edge areas Focuses on how and what to evaluate regarding treatment outcomes.

Introduction to Robust Estimation and Hypothesis Testing Rand R. Wilcox 2012 "This book focuses on the practical aspects of modern and robust statistical methods. The increased accuracy and power of modern methods, versus conventional approaches to the analysis of variance (ANOVA) and regression, is remarkable. Through a combination of theoretical developments, improved and more flexible statistical methods, and the power of the computer, it is now possible to address problems with standard methods that seemed insurmountable only a few years ago"--

Business Model Innovation Allan Afuah 2018-10-03 Rooted in strategic management research, Business Model Innovation explores the concepts, tools, and techniques that enable organizations to gain and/or maintain a competitive advantage in the face of technological innovation, globalization, and an increasingly knowledge-intensive economy. Updated with all-new cases, this second edition of the must-have for those looking to grasp the fundamentals of business model innovation, explores the novel ways in which an organization can generate, deliver, and monetize benefits to customers.

Another Generation of Fundamental Considerations in Language Assessment Gary J. Ockey 2020-11-23 This edited book is a collection of papers, written by language assessment professionals to reflect the guidance of Professor Lyle F. Bachman, one of the leading second language assessment experts in the field for decades. It has three sub-themes: assessment of evolving language ability constructs, validity and validation of language assessments, and understanding internal structures of language assessments. It provides theoretical guidelines for practical language assessment challenges. Chapters are written by language assessment researchers who graduated from the University of

California, Los Angeles, where Professor Bachman trained them including the book editors.

Handbook of Employee Selection James L. Farr 2017-03-27 This second edition of the Handbook of Employee Selection has been revised and updated throughout to reflect current thinking on the state of science and practice in employee selection. In this volume, a diverse group of recognized scholars inside and outside the United States balance theory, research, and practice, often taking a global perspective. Divided into eight parts, chapters cover issues associated with measurement, such as validity and reliability, as well as practical concerns around the development of appropriate selection procedures and implementation of selection programs. Several chapters discuss the measurement of various constructs commonly used as predictors, and other chapters confront criterion measures that are used in test validation. Additional sections include chapters that focus on ethical and legal concerns and testing for certain types of jobs (e.g., blue collar jobs). The second edition features a new section on technology and employee selection. The Handbook of Employee Selection, Second Edition provides an indispensable reference for scholars, researchers, graduate students, and professionals in industrial and organizational psychology, human resource management, and related fields.

Stress Testing and Risk Integration in Banks Tiziano Bellini 2016-11-26 Stress Testing and Risk Integration in Banks provides a comprehensive view of the risk management activity by means of the stress testing process. An introduction to multivariate time series modeling paves the way to scenario analysis in order to assess a bank resilience against adverse macroeconomic conditions. Assets and liabilities are jointly studied to highlight the key issues that a risk manager needs to face. A multi-national bank prototype is used all over the book for diving into market, credit, and operational stress testing. Interest rate, liquidity and other major risks are also studied together with the former to outline how to implement a fully integrated risk management toolkit. Examples, business cases, and exercises worked in Matlab and R facilitate readers to develop their own models and methodologies. Provides a rigorous

statistical framework for modeling stress test in line with U.S. Federal Reserve FRB CCAR (Comprehensive Capital Analysis Review), U.K. PRA (Prudential Regulatory Authority), EBA (European Banking Authority) and comply with Basel Accord requirements Follows an integrated bottom-up approach central in the most advanced risk modelling practice Provides numerous sample codes in Matlab and R

Vapro Vbci the Solution for Corrosion Control Dr. Nelson Cheng PhD 2020-12-10 The global economic cost from corrosion is estimated to be more than US\$2.5 trillion, or equivalent to 3.4% of the global GDP. Corrosion costs the U.S. economy close to \$300 billion per annum. About 100 billion dollars these costs could be remediated by application of corrosion-resistant materials and the use of corrosion-related technical practices such as corrosion inhibitors. A corrosion inhibitor is a chemical compound that, when added to a liquid or gas, decreases the corrosion rate of a metal, or its alloy that comes into contact with the fluid or vapour. These chemicals are both organic and inorganic compounds, which generally form a protective layer on the metal surface. Some corrosion inhibitors contain heavy metals are harmful to human health, toxic to plants, environments, and animals. They also have adverse effect on the ecology of the receiving environment and on surface and ground water quality. This book focuses on the use of Vapro VBCI Corrosion Inhibitors which are biodegradable, less toxic, and environmentally friendly. The authors believe in creating a cleaner, greener, and better tomorrow for our children and children's children. Lead Authors Dr Benjamin Valdez Salas Dr Nelson Cheng PhD (honoris causa) Patrick Moe BSc, MSc, Grad Diploma

International Joint Conference: 12th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2019) and 10th International Conference on European Transnational Education (ICEUTE 2019) Francisco Martínez Álvarez 2019-04-27 This volume presents papers presented at CISIS 2019 and ICEUTE 2019, held in the beautiful and historic city of Seville (Spain) in May 2019. The 12th CISIS 2019 conference offered a meeting opportunity for academic and industry-related researchers from the various communities of

computational intelligence, information security and data mining, and the need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, was the catalyst and the aggregation stimulus for the event. The book covers current topics such as cryptographic and data analytics solutions to fulfil least minimum privilege and endorse least minimum effort in information systems. The book also includes 15 papers from the 10th ICEUTE 2019, covering topics like new approaches to assess competencies and innovation in computer science education.

Research Handbook on EU Energy Law and Policy Rafael Leal-Arcas 2017-10-27 This authoritative Research Handbook presents, for the first time, a comprehensive overview of the most important research and latest trends in EU energy law and policy. It offers high-quality original contributions that provide state-of-the-art research in this rapidly evolving area, situated in the broader context of international economic law and governance.

PISA The Experience of Middle-Income Countries Participating in PISA 2000-2015 Lockheed Marlane 2015-11-27 This report provides a systematic review and empirical evidence related to the experiences of middle-income countries and economies participating in the Programme for International Student Assessment (PISA), 2000 to 2015.

A Framework for K-12 Science Education National Research Council 2012-02-28 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and,

subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

EU Environmental Law Geert Van Calster 2017-02-24 EU Environmental Law discusses the reality for legal practice throughout the EU, as environmental law of the Member States is becoming ever less 'national'. Consequentially European environmental regulation is becoming more complex and interrelated, making it an emerging field of study for European law graduates, and an area of increasing exposure to the legal profession. This book gives readers a thorough overview of core European environmental law, with a section on the basic framework and principles, as well as on substantive law issues giving insight into the legislation in the different sectors and the most topical developments.

The Israeli Solution Caroline B. Glick 2014 Tracing the history and false assumptions of the two-state policy of the United States toward Israel and Palestinians, this contrarian manifesto, after explaining 90 years of failed policy, offers an alternative way toward stability. 25,000 first printing.

Everyday Cryptography Keith Martin 2017-06-08 Cryptography is a vital

technology that underpins the security of information in computer networks. This book presents a comprehensive introduction to the role that cryptography plays in providing information security for everyday technologies such as the Internet, mobile phones, Wi-Fi networks, payment cards, Tor, and Bitcoin. This book is intended to be introductory, self-contained, and widely accessible. It is suitable as a first read on cryptography. Almost no prior knowledge of mathematics is required since the book deliberately avoids the details of the mathematics techniques underpinning cryptographic mechanisms. Instead our focus will be on what a normal user or practitioner of information security needs to know about cryptography in order to understand the design and use of everyday cryptographic applications. By focusing on the fundamental principles of modern cryptography rather than the technical details of current cryptographic technology, the main part of this book is relatively timeless, and illustrates the application of these principles by considering a number of contemporary applications of cryptography. Following the revelations of former NSA contractor Edward Snowden, the book considers the wider societal impact of use of cryptography and strategies for addressing this. A reader of this book will not only be able to understand the everyday use of cryptography, but also be able to interpret future developments in this fascinating and crucially important area of technology.

Legal and Regulatory Framework of European Energy Markets Cansu D. Burkhalter 2020-03-18 Since the beginning of the 1990s, Europe has been struggling to establish a competitive as well as a fully integrated internal energy market. Until the early 1990s, the European energy markets consisted of national monopolies possessing vertically integrated structures. They were also still nationally segregated. Since, the EU has made the decision to open European energy markets to competition and subsequently establish an internal energy market. The European energy markets are currently controlled by a dual structure consisting of two different regulatory frameworks: competition law and sector-specific regulations. The primary goal of these legal instruments is the establishment of an internal energy market. This book aims at analysing

the development of the European energy markets and policies from the perspective of competition law as well as sector-specific regulations and, hence, identifying the problems regarding the introduction of competition into the energy markets.

Modeling Economic Growth in Contemporary Greece Vasileios Vlachos 2021-11-04 Modeling Economic Growth in Contemporary Greece assesses the conditions shaping the Greek economy's restart, discussing the effect of institutions on the business environment and highlighting the factors which are critical for achieving sustainable economic growth.

Citrus Pathology Harsimran Gill 2017-04-12 This book is an attempt to compile different aspects of citrus pathology to provide an overall knowledge to those who are interested in it, so that they may identify the bottlenecks to improve it further. The book chapters detail about citrus diseases, metabolic changes in citrus plants against various stresses, quorum sensing and its role in symptom development, preharvest and postharvest disease management, and application of citrus and its compounds. The goal of this book is to provide the most up-to-date review on information available on pathological aspects of citrus. Therefore, this book will equip academia and industry people with adequate basic knowledge of citrus diseases and management options.

Small Sample Size Solutions Rens van de Schoot 2020-02-13 Researchers often have difficulties collecting enough data to test their hypotheses, either because target groups are small or hard to access, or because data collection entails prohibitive costs. Such obstacles may result in data sets that are too small for the complexity of the statistical model needed to answer the research question. This unique book provides guidelines and tools for implementing solutions to issues that arise in small sample research. Each chapter illustrates statistical methods that allow researchers to apply the optimal statistical model for their research question when the sample is too small. This essential book will enable social and behavioral science researchers to test their hypotheses even when the statistical model required for answering their research question is too complex for the sample sizes they can collect. The statistical models in the book range from the estimation of a population mean to

models with latent variables and nested observations, and solutions include both classical and Bayesian methods. All proposed solutions are described in steps researchers can implement with their own data and are

accompanied with annotated syntax in R. The methods described in this book will be useful for researchers across the social and behavioral sciences, ranging from medical sciences and epidemiology to psychology, marketing, and economics.