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Discusses the bilateral investment treaty, or BIT. Chinese Herbal Medicine -- part of a larger healing system called Traditional Chinese Medicine (TCM), which also includes acupuncture, massage dietary advice and exercise. TCM is a popular method of treatment -- is actually called Chinese Drug Therapy in China because it uses a wide variety of substances and therapeutic modalities. Plant, animal and mineral substances are all included in the Materia Medica of Chinese Drug Therapy. The earliest uses date back at least 4000 years to the Shang dynasty. Characters representing medicinal substances have been found carved into oracular bone fragments. These were used diagnostically by the Wu Shaman of this time. The earliest materia Medica, the Sheng Nung Peng Tsao, recorded over 10,000 medicinal substances. While there seems to be an almost unlimited amount of medicinal substances, the most commonly used number around 200. Increased attention has begun being given to the field due to several factors: The apparent success stories in many cases; The failure of Western medicine in many disorders; and Realisation on the part of Western researchers that successful drugs can be designed on the basis of Chinese herbal drugs. This new book presents the latest research in the field. This book offers an extensive analysis of carbon-energy taxation that addresses the interplay between carbon-energy taxation and emissions trading, as well as the implications for future international climate policy. Much of the world's petroleum is located on continental margins, and any further development of these offshore deposits would be impossible without new technologies and new methods contained in this volume. Written by some of the world's foremost authorities on oil and gas, this volume explains for the practicing engineer and the engineering student some of the most important and cutting-edge techniques for developing offshore fields on continental margins. Provides descriptions, prices, and photographs of small firearms. Boasting chapters written by leading international experts, Nanostructured and Advanced Materials for Fuel Cells provides an overview of the progress that has been made so far in the material and catalyst development for fuel cells. The book covers the most recent developments detailing all aspects of synthesis, characterization, and performance. It offers an overview on the principles, classifications, and types of fuels used in fuel cells, and discusses the critical properties, design, and advances made in various sealing materials. It provides an extensive review on the design, configuration, fabrication, modeling, materials, and stack performance of  $\text{SOFC}$  technology, and addresses the advancement and challenges in the synthesis, characterization, and fundamental understanding of the catalytic activity of nitrogen-carbon, carbon, and noncarbon-based electro catalysts for PEM fuel cells. The authors explore the atomic layer deposition (ALD) technique, summarize the advancements in the fundamental understanding of the most successful Nafion membranes, and focus on the development of alternative and composite membranes for direct alcohol fuel cells (DAFCs). They also review current challenges and consider future development in the industry. Includes 17 chapters, 262 figures, and close to 2000 references Provides an extensive review of the carbon, nitrogen-carbon, and noncarbon-based electro catalysts for fuel cells Presents an update on the

latest materials development in conventional fuel cells and emerging fuel cells This text is a single-source reference on the latest advances in the nano-structured materials and electro catalysts for fuel cells, the most efficient and emerging energy conversion technologies for the twenty-first century. It serves as a valuable resource for students, materials engineers, and researchers interested in fuel cell technology. Investigating Seafloors and Oceans: From Mud Volcanoes to Giant Squid offers a bottom-to-top tour of the world's oceans, exposing the secrets hidden therein from a variety of scientific perspectives. Opening with a discussion of the earth's formation, hot spots, ridges, plate tectonics, submarine trenches, and cold seeps, the text goes on to address such topics as the role of oceans in the origin of life, tidal bore, thermal effects, ecosystem services, marine creatures, and nutraceutical and pharmaceutical resources. This unique reference provides insight into a wide array of questions that researchers continue to ask about the vast study of oceans and the seafloor. It is a one-of-a-kind examination of oceans that offers important perspectives for researchers, practitioners, and academics in all marine-related fields. Includes chapters addressing various scientific disciplines, offering the opportunity for readers to gain insights on diverse topics in the study of oceans Provides scientific discussion on thermo-tolerant microbial life in sub-seafloor hot sediments and vent fields, as well as the origin of life debates and the puzzles revolving around how life originated Includes detailed information on the origin of dreaded episodes, such as volcanic eruptions, earthquakes, tsunamis, internal waves and tidal bores Contains information on the contribution of the oceans in terms of providing useful nutraceutical and pharmaceutical products Authored by 50 top academic, government and industry researchers, this handbook explores mature, evolving technologies for a clean, economically viable alternative to non-renewable energy. In so doing, it also discusses such broader topics as the environmental impact, education, safety and regulatory developments. The text is all-encompassing, covering a wide range that includes hydrogen as an energy carrier, hydrogen for storage of renewable energy, and incorporating hydrogen technologies into existing technologies. Geological Controls for Gas Hydrate Formations and Unconventionals tells the story of unconventional hydrocarbon resources, especially gas hydrates, tight gas, shale gas, liquid- rich shale, and shale oil, to future generations. It presents the most current research in unconventionals, covering structural constituents of continental margins and their role in generating hydrocarbons. Additionally, this book answers basic questions regarding quantifications and characterizations, distributions, modes of occurrence, physical and chemical properties, and more — in essence, all the information that is necessary to improve the models for precision prediction of the enigma of gas hydrates and other unconventionals. Blending geology, geophysics, geomechanics, petrophysics, and reservoir engineering, it explains in simple language the scientific concepts that are necessary to develop geological and reservoir models for unconventionals. Serving as a focal point for geoscientists and engineers conducting research that focuses on reservoir characteristics of unconventionals, Geological Controls for Gas Hydrate Formations and Unconventionals is a useful resource for a variety of other specialiststies including physicists, geochemists, exploration geologists, and petroleum and reservoir engineers. It details the key factors for successful exploration and development of unconventional reservoirs including discovery, data evaluation, full-field development, production, and abandonment, along with a vivid description ofn the worldwide occurrence of unconventional hydrocarbons. Includes a range of datasets that provide detailed workflows for geological modeling Presents theoretical and real data analysis from different parts of the world, making its content practical and implementable in a range of gas hydrate exploration and extraction scenarios Features more than 200 figures and illustrations to highlight key concepts A Detailed, Up-to-Date Treatment of Key Developments in PEMFC Materials The potential to revolutionize the way we power our world Because of its lower temperature and special polymer electrolyte membrane, the proton exchange membrane fuel cell (PEMFC) is well-suited for transportation, portable, and micro fuel cell applications. But the performance of these fuel cells critically depends on the materials used for the various cell components. Durability, water management, and reducing catalyst poisoning are important factors when selecting PEMFC materials. Written by international PEMFC scientists and engineers from top-level organizations, Proton Exchange Membrane Fuel Cells: Materials Properties and Performance provides a single resource of information for understanding how to select and develop materials for improved PEMFC performance. The book focuses on the major components of the fuel cell unit, along with design and modeling aspects. It covers catalysts and catalyst layers, before discussing the key components of membranes, diffusion layers, and bipolar plates. The book also explores materials modeling for the PEMFC. This volume assesses the current status of PEMFC fuel cell technology, research and development directions, and the scientific and engineering challenges facing the fuel cell community. It demonstrates how the production of a commercially viable PEMFC requires a compromise of materials with adequate properties, design interaction, and manufacturability. You'll never fall into the tourist traps when you travel with Frommer's. It's like having a friend show you around, taking you to the places locals like best. Our expert authors have already gone everywhere you might go -- they've done the legwork for you, and they're not afraid to tell it like it is, saving you time and money. No other series offers candid reviews of so many hotels and restaurants in all price ranges. Every Frommer's Travel Guide is up-to-date, with exact prices for everything, dozens of color maps, and exciting coverage of sports, shopping, and nightlife. You'd be lost

without us! Completely updated every year, Frommer's Walt Disney World & Orlando is on top of all the latest developments, including all the new shows and rides. You'll get full details on Universal Orlando, SeaWorld, and Discovery Cove in addition to our comprehensive coverage of all the Disney attractions. This easy-to-use guide includes ratings, candid opinions, and suggested age groups for all the rides, up-to-date maps, and insider tips on how to plan your itinerary and minimize your time spent standing in line, so you'll be able to enjoy every minute of the magic. You'll even get a color fold-out map!

Electrochemistry theme is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Electrochemistry is the science that studies the properties and chemical transformations of/within ionic conductors (most commonly a solution of a salt) and at the interface between an ionic conductor and an electronic conductor (most commonly a metal) or semiconductor. Electrochemistry is present in many aspects of our everyday life. Probably, batteries are the most common example. However, electrochemistry is also present in many other aspects of vital importance in the chemical industry, like chlorine, caustic soda and aluminum (and many others not described here) are produced through electrochemical processes. This volume is aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

Advances in computing hardware and algorithms have dramatically improved the ability to simulate complex processes computationally. Today's simulation capabilities offer the prospect of addressing questions that in the past could be addressed only by resource-intensive experimentation, if at all. Assessing the Reliability of Complex Models recognizes the ubiquity of uncertainty in computational estimates of reality and the necessity for its quantification. As computational science and engineering have matured, the process of quantifying or bounding uncertainties in a computational estimate of a physical quality of interest has evolved into a small set of interdependent tasks: verification, validation, and uncertainty of quantification (VVUQ). In recognition of the increasing importance of computational simulation and the increasing need to assess uncertainties in computational results, the National Research Council was asked to study the mathematical foundations of VVUQ and to recommend steps that will ultimately lead to improved processes. Assessing the Reliability of Complex Models discusses changes in education of professionals and dissemination of information that should enhance the ability of future VVUQ practitioners to improve and properly apply VVUQ methodologies to difficult problems, enhance the ability of VVUQ customers to understand VVUQ results and use them to make informed decisions, and enhance the ability of all VVUQ stakeholders to communicate with each other. This report is an essential resource for all decision and policy makers in the field, students, stakeholders, UQ experts, and VVUQ educators and practitioners. This book provides an accessible approach to Bayesian computing and data analysis, with an emphasis on the interpretation of real data sets. Following in the tradition of the successful first edition, this book aims to make a wide range of statistical modeling applications accessible using tested code that can be readily adapted to the reader's own applications. The second edition has been thoroughly reworked and updated to take account of advances in the field. A new set of worked examples is included. The novel aspect of the first edition was the coverage of statistical modeling using WinBUGS and OPENBUGS. This feature continues in the new edition along with examples using R to broaden appeal and for completeness of coverage. 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. Written by an internationally-recognized author team of natural gas industry experts, the third edition of Handbook of Natural Gas Transmission and Processing is a unique, well-documented, and comprehensive work on the major aspects of natural gas transmission and processing. Two new chapters have been added to the new edition: a chapter on nitrogen rejection to address today's high nitrogen gases and a chapter on gas processing plant operations to assist plant operators with optimizing their plant operations. In addition, overall updates to Handbook of Natural Gas Transmission and Processing provide a fresh look at new technologies and opportunities for solving current gas processing problems on plant design and operation and on greenhouse gases emissions. It also does an excellent job of highlighting the key considerations that must be taken into account for any natural gas project in development. Covers all technical and operational aspects of natural gas transmission and processing in detail. Provides pivotal updates on the latest technologies, applications and solutions. Offers practical advice on design and operation based on engineering principles and operating experiences. Today, international investment law consists of a network of multifaceted, multilayered international treaties that, in one way or another, involve virtually

every country of the world. The evolution of this network continues, raising a host of issues regarding international investment law and policy, especially in the area of international investment disputes. This Yearbook monitors current developments in international investment law and policy, focusing (in Part One) on trends in foreign direct investment (FDI), international investment agreements, and investment disputes, with a special look at developments in the oil and gas sector. Part Two, then, looks at central issues in the contemporary discussions on international investment law and policy. With contributions by leading experts in the field, this title provides timely, authoritative information on FDI that can be used by a wide audience, including practitioners, academics, researchers, and policy makers. The next several years will see a massive emergence of hydrogen fuel cells as an alternative energy option in both transportation and domestic use. The long-range expectation is that hydrogen will be used as a fuel, produced either from renewable energy, fossil, or nuclear sources, offering an environmentally acceptable and efficient source of power/energy. Hydrogen and Fuel Cells describes in detail the techniques associated with all the production and conversion steps and the set-up of systems at a level suited for both academic and professional use. The book not only describes the "how" and "where" aspects hydrogen fuels cells may be used, but also the obstacles and benefits of its use, as well as the social implications (both economically and environmental). Thoroughly illustrated and cross-referenced, this is the ultimate reference for researchers, professionals and students in the field of renewable energy. \* Written by a world-renowned leader in the study of renewable energy. \* Thoroughly illustrated with cross-references for easy use and reference. \* Written at a level suited for both academic and professional use. This book focuses on Meso- to Neoproterozoic geology and Petroleum resources in China. It offers the oldest sediments knowledge for petroleum generation, accumulation, alteration and preservation in the world. It provides a valuable contribution to the understanding of a potential Precambrian oil and gas exploration realm through well-developed Meso- to Neoproterozoic sedimentary strata with petroleum resources. This work will appeal to a wide readership, from geologists, geochemists, petroleum prospector, university faculty members to advanced students working for Precambrian and petroleum geological and geochemical research. Volume 69 of Reviews in Mineralogy and Geochemistry covers the fundamental issues of volcanology: At what depths are eruptions triggered, and over what time scales? Where and why do magmas coalesce before ascent? If magmas stagnate for thousands of years, what forces are responsible for initiating final ascent, or the degassing processes that accelerate upward motion? To the extent that we can answer these questions, we move towards formulating tests of mechanistic models of volcanic eruptions (e.g., Wilson, 1980; Slezin, 2003; Scandone et al., 2007), and hypotheses of the tectonic controls on magma transport (e.g., ten Brink and Brocher, 1987; Takada, 1994; Putirka and Busby, 2007). Our goal, in part, is to review how minerals can be used to understand volcanic systems and the processes that shape them; we also hope that this work will spur new and integrated studies of volcanic systems. Model transformations are the glue that tie modelling activities together. If you've used modelling in anger then, whether you know it or not, you've used model transformations. They come in all shapes and sizes from moving models between different tools to generating implementations. Model transformations have humble beginnings—at one point, not long ago, it was said by many 'in the know' that the way forward in model transformations was to use XSLT. That this idea now raises a wry smile shows how far the model transformation community has come in a short time. Where once model transformations were hacked together in a variety of unsuitable languages, we now have a number of powerful, dedicated languages and theories at our disposal. Since 2008, the ICMT conference series has played a huge part in advancing the subject, and this third edition was no different. The theories and languages presented at ICMT have allowed principled model transformations to play an ever greater part in real systems. Of course there is still much more to do: we need our model transformations, languages, and theories to scale further, allow greater expressivity, be more flexible, and aid reusability; and we lack empirically backed studies of model transformations in use. Doubtless you can think of other gaps. Yet, though some real-world challenges lie just beyond our reach, each year sees once-daunting problems conquered. Much of that progress is now driven by ICMT, and this year's edition showed how model transformations are increasingly being used in previously unfamiliar areas. The Fischer-Tropsch process is gaining recognition again due to the world-wide increase in energy needs and decrease in oil availability. The increasing interest in utilizing biomass as a potential renewable feedstock in energy generation is further supporting this development. The book covers the production and refining of Fischer-Tropsch syncrude to fuels and chemicals systematically and comprehensively, presenting a wealth of new knowledge and material. As such, it deals extensively with aspects of engineering, chemistry and catalysis. This handbook and ready reference adopts a fundamental approach, looking at the molecules and their transformation from feed to product. Numerous examples illustrate the possibilities and limitations of Fischer-Tropsch syncrude as feedstock. Of great interest to everyone interested in refining - not just Fischer-Tropsch specialists. From the Contents: Fischer-Tropsch Facilities and Refineries at a Glance Production of Fischer-Tropsch Syncrude Industrial Fischer-Tropsch Facilities Synthetic Transportation Fuels Refining Technology Refinery Design Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts,

Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

2023-24 ITI Fitter Trade VOLUME-II Solved Papers Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

Biofuels for Aviation: Feedstocks, Technology and Implementation presents the issues surrounding the research and use of biofuels for aviation, such as policy, markets, certification and performance requirements, life cycle assessment, and the economic and technical barriers to their full implementation. Readers involved in bioenergy and aviation sectors—research, planning, or policy making activities—will benefit from this thorough overview. The aviation industry's commitment to reducing GHG emissions along with increasing oil prices have sparked the need for renewable and affordable energy sources tailored to this sector's very specific needs. As jet engines cannot be readily electrified, turning to biofuels is the most viable option. However, aviation is a type of transportation for which traditional biofuels, such as bioethanol and biodiesel, do not fulfill key fuel requirements. Therefore, different solutions to this situation are being researched and tested around the globe, which makes navigating this scenario particularly challenging. This book guides readers through this intricate subject, bringing them up to speed with its current status and future prospects both from the academic and the industry point of view. Science and technology chapters delve into the technical aspects of the currently tested and the most promising technology in development, as well as their respective feedstocks and the use of additives as a way of adapting them to meet certain specifications. Conversion processes such as hydrotreatment, synthetic biology, pyrolysis, hydrothermal liquefaction and Fisher-Tropsch are explored and their results are assessed for current and future viability. Presents the current status of biofuels for the aviation sector, including technologies that are currently in use and the most promising future technologies, their production processes and viability Explains the requirements for certification and performance of aviation fuels and how that can be achieved by biofuels Explores the economic and policy issues, as well as life cycle assessment, a comparative techno-economic analysis of promising technologies and a roadmap to the future Explores conversion processes such as hydrotreatment, synthetic biology, pyrolysis, hydrothermal liquefaction and Fisher-Tropsch Sustainability Matters is a compilation of some of the best research papers by students from the National University of Singapore's inter-disciplinary graduate programme in environmental studies, the MSc in Environmental Management [MEM]. This collection is for the period 2009/10 to 2011/12. As the period covers 3 academic years, the papers have been split into two volumes: Sustainability Matters: Asia's Green Challenges, and Sustainability Matters: Asia's Energy Concerns, Green Policies and Environmental Advocacy. These two volumes are the third and fourth compilation by the programme, and respectively comprise sixteen and fourteen of the best research papers completed during this period. The papers have been edited for brevity. These papers analyze the many challenges to effective environmental management in the context of different countries including India, Sri Lanka, Bangladesh, China, Hong Kong, Nepal, Singapore, and Thailand, and propose insightful solutions. The first compilation, Sustainability Matters: Environmental Management in Asia, was published in 2010 (World Scientific) and comprised the best papers from 2001/2 to 2006/7. The second, Sustainability Matters: Challenges and Opportunities in Environmental Management in Asia was published in 2011 (Pearson), and comprised the best papers from 2007/8 to 2008/09. Contents: Volume 1: Air Pollution: Development of Urban Traffic Pollution Control Strategies in Asian Cities: A Case Study from Chennai, India (Ashwinkumar Dakshinamurthi and Rajasekhar Balasubramanian) Assessment and Abatement Measures for Vehicular Air Pollution in Colombo, Sri Lanka (Chamila Weerathunge and Rajasekhar Balasubramanian) Waste Management: Recycling in Singapore the Singapore Model: Strategies and Ways to Improve (Tan Puay Cheow and Lye Lin Heng) Municipal Solid Waste Management in Southeast Asian Cities: The Next Steps (Boey Yinyin Edris and Rick Reidinger) Lessons for Integrated District-Level Food Waste Recycling Programs: A Review of Eight International Cases (Amireeta Rawlani and Kua Harn Wei) Singapore's Municipal Solid Waste Management: A Sustainable Model (Wendy Wong Shih Ling and Rick Reidinger) Utilization of Landfill Gas as a Renewable Source of Energy in India (Subhashini Kashinath and Zhou Zhi George) The Potential Role

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(Md Rashed Bhuyan and Tracey Skelton)Green Business:Empowering the Bottom of the Pyramid: Government, Business, and Solar Power in India (Carrie Wallace Candeto and Audrey Chia)Charting a Greener Course in Shipping: Incorporating Environmental Performance Indicators in a Tanker Pool System (Jean Chia E Ming and Audrey Chia)Environmental Practices of Indian Business Process Outsourcing: A Study of Two Companies (Sweta Sorab and Mark Goh)Green Business Strategies in the Precision Engineering Industry in Singapore (Gan Chin-Yean and Audrey Chua)The Second Green Revolution: A Review of the Challenges and Prospects (Leong Li-Sun and Victor R Savage)Towards Broader Implementation of Corporate Sustainability and Sustainability Reporting in the Construction Industry in Singapore (Kaia Margit Davis Tan and Audrey Chia)Volume 2:Biodiversity:The Impact of Community Forestry on Biodiversity Conservation in Nepal (Ishwari Prasad Poudel and Chou Loke-Ming)Waste Management:Improving Leachate Water Quality Using a Wetland Treatment System in Lorong Halus — A Pilot Study (Christian Budiman and Ting Yen-Ping)Life Cycle Assessment of an Urban Waste Refinery (Celia Chua Bee-Hong and Kua Harn-Wei)A Study of the 3Rs (Reduce, Reuse, Recycle) Programs in Primary Schools, Singapore (Kelly Yong Kim-Lian and Victor R Savage)Urban Studies:An Assessment of Sustainable Cities (May Yadana Aung and Chou Loke-Ming)Urban Greenery as a Mitigation Strategy for Urban Heat Island Effect in High Density Commercial Districts of Dhaka, Bangladesh (Nabanita Islam and Wong Nyuk-Hien) The Potential for Residential Water Conservation in Dhaka, Bangladesh (Sonia F Hoque, Asanga Gunawansa and Md Mafizur Rahman)Planned Housing Environments and Children's Outdoor Play: Is Child-Friendliness Possible? (Md Rashed Bhuyan and Tracey Skelton)Energy and Climate Change:Wind: The Alternative Source of Power for Singapore After Solar Energy? (Chew Keng-Hui and Lanry Yung)The Economics of Wind Energy (Alan Yau Wai-Hoo and Benjamin K Sovacool)Print Media and Climate Change: A Comparison of the 1992 Rio Summit and the 2009 Copenhagen Conference (Davina Loh and Victor R Savage)Green Business:Green Business Strategies in the Precision Engineering Industry in Singapore (Gan Chin-Yean and Audrey Chia)The Second Green Revolution: A Review of the Challenges and Prospects (Leong Li-Sun and Victor R Savage)Towards Broader Implementation of Corporate Sustainability and Sustainability Reporting in the Construction Industry in Singapore (Kaia Margit Davis-Tan and Audrey Chia) Readership: Graduate students, academics and researchers in environmental management/science. Keywords:Environment;Management;Sustainability;Asia;Corporate Environmental Management;Biodiversity and Planning;Marine Environment;Environment and Economic Development;Energy Sustainability;Renewable Energy;Urban Pollution and Waste Management;Sustainable Infrastructure;Transportation;Recycling;Urban Studies;Green Business An applied and concise treatment of statistical regression techniques for business students and professionals who have little or no background in calculus Regression analysis is an invaluable statistical methodology in business settings and is vital to model the relationship between a response variable and one or more predictor variables, as well as the prediction of a response value given values of the predictors. In view of the inherent uncertainty of business processes, such as the volatility of consumer spending and the presence of market uncertainty, business professionals use regression analysis to make informed decisions. Applied Regression Modeling: A Business Approach offers a practical, workable introduction to regression analysis for upper-level undergraduate business students, MBA students, and business managers, including auditors, financial analysts, retailers, economists, production managers, and professionals in manufacturing firms. The book's overall approach is strongly based on an abundant use of illustrations and graphics and uses major statistical software packages, including SPSS(r), Minitab(r), SAS(r), and R/S-PLUS(r). Detailed instructions for use of these packages, as well as for Microsoft Office Excel(r), are provided, although Excel does not have a built-in capability to carry out all the techniques discussed. Applied Regression Modeling: A Business Approach offers special user features, including: \* A companion Web site with all the datasets used in the book, classroom presentation slides for instructors, additional problems and ideas for

organizing class time around the material in the book, and supplementary instructions for popular statistical software packages. An Instructor's Solutions Manual is also available. \* A generous selection of problems-many requiring computer work-in each chapter with fullyworked-out solutions \* Two real-life dataset applications used repeatedly in examples throughout the book to familiarize the reader with these applications and the techniques they illustrate \* A chapter containing two extended case studies to show the direct applicability of the material \* A chapter on modeling extensions illustrating more advanced regression techniques through the use of real-life examples and covering topics not normally seen in a textbook of this nature \* More than 100 figures to aid understanding of the material Applied Regression Modeling: A Business Approach fully prepares professionals and students to apply statistical methods in their decision-making, using primarily regression analysis and modeling. To help readers understand, analyze, and interpret business data and make informed decisions in uncertain settings, many of the examples and problems use real-life data with a business focus, such as production costs, sales figures, stock prices, economic indicators, and salaries. A calculus background is not required to understand and apply the methods in the book. This book is the first to focus on the application of mathematical networks for analyzing microarray data. This method goes well beyond the standard clustering methods traditionally used. From the contents: \* Understanding and Preprocessing Microarray Data \* Clustering of Microarray Data \* Reconstruction of the Yeast Cell Cycle by Partial Correlations of Higher Order \* Bilayer Verification Algorithm \* Probabilistic Boolean Networks as Models for Gene Regulation \* Estimating Transcriptional Regulatory Networks by a Bayesian Network \* Analysis of Therapeutic Compound Effects \* Statistical Methods for Inference of Genetic Networks and Regulatory Modules \* Identification of Genetic Networks by Structural Equations \* Predicting Functional Modules Using Microarray and Protein Interaction Data \* Integrating Results from Literature Mining and Microarray Experiments to Infer Gene Networks The book is for both, scientists using the technique as well as those developing new analysis techniques. Mixed or multiphase flows of solid/liquid or solid/gas are commonly found in many industrial fields, and their behavior is complex and difficult to predict in many cases. The use of computational fluid dynamics (CFD) has emerged as a powerful tool for the understanding of fluid mechanics in multiphase reactors, which are widely used in the chemical, petroleum, mining, food, beverage and pharmaceutical industries. Computational Techniques for Multiphase Flows enables scientists and engineers to the undertand the basis and application of CFD in muliphase flow, explains how to use the technique, when to use it and how to interpret the results and apply them to improving aplications in process engineering and other multiphase application areas including the pumping, automotive and energy sectors. Understandable guide to a complex subject Important in many industries Ideal for potential users of CFD This handbook provides a comprehensive review of new developments in the study of the relationship between the brain and language, from the perspectives of both basic research and clinical neuroscience. Includes contributions from an international team of leading figures in brain-language research Features a novel emphasis on state-of-the-art methodologies and their application to the central questions in the brain-language relationship Incorporates research on all parts of language, from syntax and semantics to spoken and written language Covers a wide range of issues, including basic level and high level linguistic functions, individual differences, and neurologically intact and different clinical populations

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