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*Actex Study Manual*  
Elsevier  
Twelfth in a series of

annual reports comparing  
business regulation in 189  
economies, Doing  
Business 2015 measures  
regulations affecting 10  
areas of everyday  
business activity: Starting  
a business Dealing with

construction permits  
Getting electricity  
Registering property  
Getting credit Protecting  
minority investors Paying  
taxes Trading across  
borders Enforcing  
contracts Resolving

insolvency Labor market regulations This year's report will present data for a second city for the 11 economies with more than 100 million inhabitants. These are Bangladesh, Brazil, China, India, Indonesia, Japan, Mexico, Nigeria, Pakistan, the Russian Federation, and the United States. Three of the 10 topics covered have been expanded, with further plans to expand on five additional indicators in next year's report. Additionally, the Doing Business rankings are

now based on the distance to the frontier measure where each economy is evaluated based on how close their business regulations are to the best global practices. This provides a more precise view of each economy's performance and its improvement over time. The report updates all indicators as of June 1, 2014, ranks economies on their overall 'ease of doing business,' and analyzes reforms to business regulation identifying which economies are

strengthening their business environment the most. Doing Business illustrates how reforms in business regulations are being used to analyze economic outcomes for domestic entrepreneurs and for the wider economy. It is a flagship product produced in partnership by the World Bank and IFC that garners worldwide attention on regulatory barriers to entrepreneurship. More than 60 economies have used the Doing Business indicators to shape reform agendas and monitor

improvements on the ground. In addition, the Doing Business data has generated over 2,000 articles in peer-reviewed academic journals since its inception.

Modern Plastics Handbook  
IWA Publishing

The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately 30,000,000

tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use

stainless steel to make sound technical judgments about which stainless steels to use and how to use them.

*A Linguistic History of Arabic* McGraw Hill Professional

This introduction can be used, at the beginning graduate level, for a one-semester course on probability theory or for self-direction without benefit of a formal course; the measure theory needed is developed in the text. It will also be useful for students and teachers in related areas

such as finance theory, electrical engineering, and operations research. The text covers the essentials in a directed and lean way with 28 short chapters, and assumes only an undergraduate background in mathematics. Readers are taken right up to a knowledge of the basics of Martingale Theory, and the interested student will be ready to continue with the study of more advanced topics, such as Brownian Motion and Ito Calculus, or Statistical

Inference.  
**Materials for Engineering** Springer Science & Business Media Unique in scope, An Introduction to the Languages of the World introduces linguistics students to the variety of world's languages. Students will gain familiarity with concepts such as sound change, lexical borrowing, diglossia, and language diffusion, and the rich variety of linguistic structure in word order, morphological types, grammatical relations,

gender, inflection, and derivation. It offers the opportunity to explore structures of varying and fascinating languages even with no prior acquaintance. A chapter is devoted to each of the world's continents, with in-depth analyses of representative languages of Europe, Asia, Africa, Oceania, and America, and separate chapters cover writing systems and pidgins and creoles. Each chapter contains exercises and recommendations for further reading. New to

this edition are eleven original maps as well as sections on sign languages and language death and revitalization. For greater readability, basic language facts are now organized in tables, and language samples follow international standards for phonetic transcription and word-by-word glossing. There is an instructor's manual available for registered instructors on the book's companion website. *America's Original Sin* Elsevier  
This Dictionary covers

information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical

material. This Second Edition contains 10,000 new entries, for a total of 33,000. *Thermal Analysis of Materials* OUP Oxford  
Derivatives Markets  
ROBERT L. MCDONALD  
Northwestern University  
Derivatives tools and concepts permeate modern finance. An authoritative treatment from a recognized expert, *Derivatives Markets* presents the sometimes challenging world of futures, options, and other derivatives in an accessible, cohesive, and

intuitive manner. Some features of the book include: \*Insights into pricing models. Formulas are motivated and explained intuitively. Links between the various derivative instruments are highlighted. Students learn how derivatives markets work, with an emphasis on the role of competitive market-makers in determining prices. \*A tiered approach to mathematics. Most of the book assumes only basic mathematics, such as solving two equations in two unknowns. The last

quarter of the book uses calculus, and provides an introduction to the concepts and pricing techniques that are widely used in derivatives today. \*An applied emphasis. Chapters on corporate applications, financial engineering, and real options illustrate the broad applicability of the tools and models developed in the book. A rich array of examples bolsters the theory. \*A computation-friendly approach. Excel spreadsheets. Visual Basic code for the pricing

functions is included, and can be modified for your own use. ADVANCE PRAISE FROM THE MARKET Derivatives Markets provides a comprehensive yet in-depth treatment of the theory, institutions, and applications of derivatives. McDonald is a master teacher and researcher in the field and makes the reading effortless and exciting with his intuitive writing style and the liberal use of numerical examples and cases sprinkled throughout...(It) is a

terrific book, and I highly recommend it. George Constantinides University of Chicago ...the most appealing part of the writing is how replete the text is with intuition and how effortless it is woven throughout. Ken Kavajecz University of Pennsylvania ...a wonderful blend of the economics and mathematics of derivatives pricing. After reading the book, the student will have not only an understanding of derivatives pricing models but also of derivatives markets...The technical

development...brings the student/reader remarkably close to state of the art with carefully chosen and developed mathematical machinery. Auditorium Acoustics and Architectural Design ASM International  
The importance of permanent magnet (PM) motor technology and its impact on electromechanical drives has grown exponentially since the publication of the bestselling second edition. The PM brushless motor market has grown considerably faster than

the overall motion control market. This rapid growth makes it essential for electrical and electromechanical engineers and students to stay up-to-date on developments in modern electrical motors and drives, including their control, simulation, and CAD. Reflecting innovations in the development of PM motors for electromechanical drives, Permanent Magnet Motor Technology: Design and Applications, Third Edition demonstrates the

construction of PM motor drives and supplies ready-to-implement solutions to common roadblocks along the way. This edition supplies fundamental equations and calculations for determining and evaluating system performance, efficiency, reliability, and cost. It explores modern computer-aided design of PM motors, including the finite element approach, and explains how to select PM motors to meet the specific requirements of electrical drives. The

numerous examples, models, and diagrams provided in each chapter facilitate a lucid understanding of motor operations and characteristics. This 3rd edition of a bestselling reference has been thoroughly revised to include: Chapters on high speed motors and micromotors Advances in permanent magnet motor technology Additional numerical examples and illustrations An increased effort to bridge the gap between theory and industrial applications

Modified research results  
The growing global trend toward energy conservation makes it quite possible that the era of the PM brushless motor drive is just around the corner. This reference book will give engineers, researchers, and graduate-level students the comprehensive understanding required to develop the breakthroughs that will push this exciting technology to the forefront.  
*Get the Message?* Lulu Press, Inc



Modern concert halls and opera houses are now very specialized buildings with special acoustical characteristics. With new contemporary case-studies, this updated book explores these characteristics as an important resource for architects, engineers and auditorium technicians. Supported by over 40 detailed case studies and architectural drawings of 75 auditoria at a scale of 1:500, the survey of each auditorium type is completed with a discussion of current best

practice to achieve optimum acoustics.  
Derivatives Markets  
Routledge  
Covering the essential aspects of the corrosion behavior of metals in aqueous environments, this book is designed with the flexibility needed for use in courses for upper-level undergraduate and graduate students, for concentrated courses in industry, for individual study, and as a reference book.  
Probability Essentials  
Springer Science & Business Media

Global concern about climate change caused by the exploitation of fossil fuels is encouraging the use of renewable energies. For instance, the European Union aims to be climate neutral by 2050. Biogas is an interesting renewable energy source due to its high calorific value. Today, biogas is mainly used for the production of electricity and heat by a combined heat and power engine. However, before its valorization, biogas needs to be desulfurized (H<sub>2</sub>S removal) to avoid

corrosion and sulfur oxides emissions during its combustion. Biogas can be upgraded (CO<sub>2</sub> removal) and used as vehicle fuel or injected into the natural gas grid. In the last 15 years, significant advances have occurred in the development of biological desulfurization processes. In this book with five chapters, the reader can find some of the latest advances in the biogas desulfurization and an overview of the state-of-the-art research. Three of them are research studies

and two are reviews concerning the current state of biogas desulfurization technologies, economic analysis of alternatives, and the microbial ecology in biofiltration units. Biogas desulfurization is considered to be essential by many stakeholders (biogas producers, suppliers of biogas upgrading devices, gas traders, researchers, etc.) all around the world. **Civil Jet Aircraft Design** CRC Press  
There is an increasing emphasis in aeronautical

engineering on design. Concentrating on large scale commercial jet aircraft, this textbook reflects areas of growth in the aircraft industry and the procedures and practices of civil aviation design. *Advances in Biogas Desulfurization* CRC Press  
Mechanochemistry as a branch of solid state chemistry enquires into processes which proceed in solids due to the application of mechanical energy. This provides a thorough, up to date overview of

mechanochemistry of solids and minerals. Applications of mechanochemistry in nanoscience with special impact on nanogeoscience are described. Selected advanced identification methods, most frequently applied in nanoscience, are described as well as the advantage of mechanochemical approach in minerals engineering. Examples of industrial applications are given. Mechanochemical technology is being applied in many industrial

fields: powder metallurgy (synthesis of nanometals, alloys and nanocompounds), building industry (activation of cements), chemical industry (solid waste treatment, catalyst synthesis, coal ashes utilization), minerals engineering (ore enrichment, enhancement of processes of extractive metallurgy), agriculture industry (solubility increase of fertilizers), and pharmaceutical industry (improvement of solubility and bioavailability of drugs).

This reference serves as an introduction to newcomers to mechanochemistry, and encourages more experienced researchers to broaden their knowledge and discover novel applications in the field.

Stainless Steels for Design Engineers Academic Press  
Nanoparticle technology, which handles the preparation, processing, application and characterisation of nanoparticles, is a new and revolutionary technology. It becomes

the core of nanotechnology as an extension of the conventional Fine Particle / Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc.; and makes use of the unique properties of the nanoparticles which are

completely different from those of the bulk materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications, but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates of the basic properties of

nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. \*

Introduces all aspects of nanoparticle technology, from the fundamentals to applications. \* Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints \* Includes information on nanostructures, which play an important role in practical applications. *Nanoparticle Technology Handbook* Elsevier As product specifications become more demanding, manufacturers require steel with ever more specific functional

properties. As a result, there has been a wealth of research on how those properties emerge during steelmaking. Fundamentals of metallurgy summarises this research and its implications for manufacturers. The first part of the book reviews the effects of processing on the properties of metals with a range of chapters on such phenomena as phase transformations, types of kinetic reaction, transport and interfacial phenomena. Authors

discuss how these processes and the resulting properties of metals can be modelled and predicted. Part two discusses the implications of this research for improving steelmaking and steel properties. With its distinguished editor and international team of contributors, Fundamentals of metallurgy is an invaluable reference for steelmakers and manufacturers requiring high-performance steels in such areas as automotive and

aerospace engineering. It will also be useful for those dealing with non-ferrous metals and alloys, material designers for functional materials, environmentalists and above all, high technology industries designing processes towards materials with tailored properties. Summarises key research and its implications for manufacturers Essential reading for steelmakers and manufacturers  
Written by leading experts from both industry and academia

*Fundamentals of Metallurgy* World Bank Publications  
Bacterial Physiology focuses on the physiology and chemistry of microorganisms and the value of bacterial physiology in the other fields of biology. The selection first underscores the chemistry and structure of bacterial cells, including the chemical composition of cells, direct and indirect methods of cytology, vegetative multiplication, spores of bacteria, and cell structure. The text

then elaborates on inheritance, variation, and adaptation and growth of bacteria. The publication reviews the physical and chemical factors affecting growth and death. Topics include hydrogen ion concentration and osmotic pressure; surface and other forces determining the distribution of bacteria in their environment; dynamics of disinfection and bacteriostasis; bacterial resistance; and types of antibacterial agents. The text also ponders on the anaerobic

dissimilation of carbohydrates, bacterial oxidations, and autotrophic assimilation of carbon dioxide. The selection is a dependable reference for readers interested in bacterial physiology.

*Advanced Bioactive Inorganic Materials for Bone Regeneration and Drug Delivery* Oxford University Press

Tom Miller recognized the need to write this book a few years ago, after reviewing postings on popular discussion pages frequented by actuaries.

He was surprised and troubled by the magnitude of misinformation posted on these websites. Clearly actuaries and actuarial students posting this information are only trying to be helpful to one another, but they frequently lack the necessary experience and expertise to offer sound advice. Tom seeks to provide readers of his career guide with valuable insights regarding the actuarial employment market, covering topics such as choice of product

specialization, how to conduct effective job searches, switching successfully from insurance to consulting and inside tips on what clients are really looking for when they interview you. Armed with deep knowledge and a unique perspective on the actuarial profession, Tom expects that this book will be a resource that will help you make better career decisions and “Achieve Your Pinnacle.”

*Engineered Materials Handbook, Desk Edition*  
CRC Press

This third edition of what has become a modern classic presents a lively overview of Materials Science which is ideal for students of Structural Engineering. It contains chapters on the structure of engineering materials, the determination of mechanical properties, metals and alloys, glasses and ceramics, organic polymeric materials and composite materials. It contains a section with thought-provoking questions as well as a series of useful appendices. Tabulated

data in the body of the text, and the appendices, have been selected to increase the value of Materials for engineering as a permanent source of reference to readers throughout their professional lives. The second edition was awarded Choice's Outstanding Academic Title award in 2003. This third edition includes new information on emerging topics and updated reading lists. *Actuaries' Survival Guide* ASM International  
What would you like to do

with your life? What career would allow you to fulfill your dreams of success? If you like mathematics-and the prospect of a highly mobile, international profession-consider becoming an actuary. Szabo's *Actuaries' Survival Guide*, Second Edition explains what actuaries are, what they do, and where they do it. It describes exciting combinations of ideas, techniques, and skills involved in the day-to-day work of actuaries. This second edition has been



updated to reflect the rise of social networking and the internet, the progress toward a global knowledge-based economy, and the global expansion of the actuarial field that has occurred since the first edition. Includes details on the new structures of the Society of Actuaries' (SOA) and Casualty Actuarial Society (CAS) examinations, as well as sample questions and answers Presents an overview of career options, includes profiles of companies & agencies

that employ actuaries. Provides a link between theory and practice and helps readers understand the blend of qualitative and quantitative skills and knowledge required to succeed in actuarial exams Includes insights provided by over 50 actuaries and actuarial students about the actuarial profession Author Fred Szabo has directed the Actuarial Co-op Program at Concordia for over fifteen years  
**Design for Control of Projectile Flight Characteristics** Addison-

Wesley  
 The study guide is designed to help in the preparation for the Society of Actuaries Exam P. The study manual is divided into two main parts. It will be most effective for those who have had courses in college calculus at least to the sophomore level and courses in probability to the sophomore or junior level.  
*ACTEX SOA Exam SRM*  
 Brazos Press  
 This publication presents cleaning and etching solutions, their

applications, and results on inorganic materials. It is a comprehensive collection of etching and cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or

metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing...waxes, plastics, and lacquers for example. It is useful to

individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines, work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.