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A/S/M SOA EXAM IFM

STUDY MANUAL

ACTUARIES' SURVIVAL GUIDE

HOW TO SUCCEED IN ONE OF THE MOST DESIRABLE PROFESSIONS

Academic Press 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

ACTUARIES' SURVIVAL GUIDE

HOW TO SUCCEED IN ONE OF THE MOST DESIRABLE PROFESSIONS

Academic Press This book explains what actuaries are, what they do, and where they do it. It describes the 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. --from publisher description

ACHIEVING YOUR PINNACLE: A CAREER GUIDE FOR ACTUARIES

Lulu.com

RISK NEUTRAL PRICING AND FINANCIAL MATHEMATICS

A PRIMER

Elsevier Risk Neutral Pricing and Financial Mathematics: A Primer provides a foundation to financial mathematics for those whose undergraduate quantitative preparation does not extend beyond calculus, statistics, and linear math. It covers a broad range of foundation topics related to financial modeling, including probability, discrete and continuous time and space valuation, stochastic processes, equivalent martingales, option pricing, and term structure models, along with related valuation and hedging techniques. The joint effort of two authors with a combined 70 years of academic and practitioner experience, Risk Neutral Pricing and Financial Mathematics takes a reader from learning the basics of beginning probability, with a refresher on differential calculus, all the way to Doob-Meyer, Ito, Girsanov, and SDEs. It can also serve as a useful resource for actuaries preparing for Exams FM and MFE (Society of Actuaries) and Exams 2 and 3F (Casualty Actuarial Society). Includes more subjects than other books, including probability, discrete and continuous time and space valuation, stochastic processes, equivalent martingales, option pricing, term structure models, valuation, and hedging techniques Emphasizes introductory financial engineering, financial modeling, and financial mathematics Suited for corporate training programs and professional association certification programs

SOA EXAM FM

STUDY MANUAL

"The 12th edition of the manual has the following features: •The manual has been revised and updated to conform to the new syllabus for the June 2017 and subsequent exams. •The concepts of financial mathematics are explained in plain English, in a manner that appeals to your intuition and common sense. •The manual shows you tricks and shortcuts for various types of problems, warns you about common traps that students fall into, and tells you how to avoid them. •Over 1,000 problems with detailed solutions, about half of them from prior SOA/CAS exams and half that are original to the manual. •After each topic there are examples called

"Stepping Stones" that are designed to tell you whether you have understood what you have just read, and to serve as a bridge to more difficult exam-level problems. •There is a summary of the key concepts and formulas after each topic. •There are 9 sets of Calculator Notes that give you detailed instructions for using the BA II Plus calculator. •Six original full-length (35 questions) practice exams, with complete solutions are included. •Over 600 pages in all."--Résumé de l'éditeur.

GROUP INVARIANCE APPLICATIONS IN STATISTICS

IMS

DEATH IS WRONG

Rational Argumentator Press If you have ever asked, "Why do people have to die?" then this book is for you. The answer is that no, death is not necessary, inevitable, or good. In fact, death is wrong. Death is the enemy of us all, to be fought with medicine, science, and technology. This book introduces you to the greatest, most challenging, most revolutionary movement to radically extend human lifespans so that you might not have to die at all. You will learn about some amazingly long-lived plants and animals, recent scientific discoveries that point the way toward lengthening lifespans in humans, and simple, powerful arguments that can overcome the common excuses for death. If you have ever thought that death is unjust and should be defeated, you are not alone. Read this book, and become part of the most important quest in human history. This book was written by the philosopher and futurist Gennady Stolyarov II and illustrated by the artist Wendy Stolyarov. It is here to show you that, no matter who you are and what you can do, there is always a way for you to help in humanity's struggle against death. "I thought the book was fun to read and important in what it tries to accomplish." - Zoltan Istvan, Psychology Today

HYPERPOLARIZATION METHODS IN NMR SPECTROSCOPY

Springer Elucidating Organic Reaction Mechanisms using photo-CIDNP Spectroscopy, by Martin Goez. Parahydrogen Induced Polarization by Homogeneous Catalysis: Theory and Applications, by Kerstin Münnemann et al. Improving NMR and MRI Sensitivity with Parahydrogen, by R. Mewis & Simon Duckett. The Solid-state Photo-CIDNP Effect, by Jörg Matysik et al. Parahydrogen-induced Polarization in Heterogeneous Catalytic Processes, by Igor Koptyug et al. Dynamic Nuclear Polarization Enhanced NMR Spectroscopy, by U. Akbey & H. Oschkinat. Photo-CIDNP NMR Spectroscopy of Amino Acids and Proteins, by Lars T. Kuhn.

MATHEMATICS FOR FINANCE

AN INTRODUCTION TO FINANCIAL ENGINEERING

Springer This textbook contains the fundamentals for an undergraduate course in mathematical finance aimed primarily at students of mathematics. Assuming only a basic knowledge of probability and calculus, the material is presented in a mathematically rigorous and complete way. The book covers the time value of

money, including the time structure of interest rates, bonds and stock valuation; derivative securities (futures, options), modelling in discrete time, pricing and hedging, and many other core topics. With numerous examples, problems and exercises, this book is ideally suited for independent study.

PRICING DERIVATIVE SECURITIES

SECOND EDITION

World Scientific Publishing Company This book presents techniques for valuing derivative securities at a level suitable for practitioners, students in doctoral programs in economics and finance, and those in masters-level programs in financial mathematics and computational finance. It provides the necessary mathematical tools from analysis, probability theory, the theory of stochastic processes, and stochastic calculus, making extensive use of examples. It also covers pricing theory, with emphasis on martingale methods. The chapters are organized around the assumptions made about the dynamics of underlying price processes. Readers begin with simple, discrete-time models that require little mathematical sophistication, proceed to the basic Black-Scholes theory, and then advance to continuous-time models with multiple risk sources. The second edition takes account of the major developments in the field since 2000. New topics include the use of simulation to price American-style derivatives, a new one-step approach to pricing options by inverting characteristic functions, and models that allow jumps in volatility and Markov-driven changes in regime. The new chapter on interest-rate derivatives includes extensive coverage of the LIBOR market model and an introduction to the modeling of credit risk. As a supplement to the text, the book contains an accompanying CD-ROM with user-friendly FORTRAN, C++, and VBA program components.

DESIGN OF ROTATING ELECTRICAL MACHINES

John Wiley & Sons In one complete volume, this essential reference presents an in-depth overview of the theoretical principles and techniques of electrical machine design. This timely new edition offers up-to-date theory and guidelines for the design of electrical machines, taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines. New coverage includes: Brand new material on the ecological impact of the motors, covering the eco-design principles of rotating electrical machines An expanded section on the design of permanent magnet synchronous machines, now reporting on the design of tooth-coil, high-torque permanent magnet machines and their properties Large updates and new material on synchronous reluctance machines, air-gap inductance, losses in and resistivity of permanent magnets (PM), operating point of loaded PM circuit, PM machine design, and minimizing the losses in electrical machines> End-of-chapter exercises and new direct design examples with methods and solutions to real design problems> A supplementary website hosts two machine design examples created with MATHCAD: rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations. Also a MATLAB code for optimizing the design of an

induction motor is provided Outlining a step-by-step sequence of machine design, this book enables electrical machine designers to design rotating electrical machines. With a thorough treatment of all existing and emerging technologies in the field, it is a useful manual for professionals working in the diagnosis of electrical machines and drives. A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students, postgraduates, researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion.

ENERGY RESEARCH ABSTRACTS

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

FUNDAMENTALS OF GENERAL INSURANCE ACTUARIAL ANALYSIS

ACTEX Publications This text introduces the commonly used, basic approaches for reserving and ratemaking in General Insurance. The methods are described through detailed examples that are linked from one chapter to another to illustrate their practical application. Also, professionalism requirements and standards of practice are presented to set the context for the methods and examples.

ACTEX SOA EXAM SRM

STUDY MANUAL

INSIGHT

NON-DESTRUCTIVE TESTING AND CONDITION MONITORING

BIOINFORMATICS AND THE CELL

MODERN COMPUTATIONAL APPROACHES IN GENOMICS, PROTEOMICS AND TRANSCRIPTOMICS

Springer Science & Business Media Biological and biomedical sciences are becoming more interdisciplinary, and scientists of the future need inte rdisciplinary training instead of the conventional disciplinary training. Just as Sean Eddy (2005) wiselypointed out that sending monolingual diplomats to the United Nations maynot enhance international collaborations, combining strictly disciplinary scientists trained in either mathematics, computational science or molecular biology will not create a productive inte rdisciplinary team ready to solve interdisciplinary problems. Molecular biology is an interdiscip linary science back in its heyday, and founders of

molecular biology were ofte n interdisciplinary scientists. Indeed, Francis Crick considered himself as "a mixture of crystallographer, biophysicist, biochemist, and geneticist" (Crick, 1965). Because it was too cumbersome to explain to people that he was such a mixture, the term "molecular biologist" came handy. To get the crystallographer, biophysicist, biochemist, and geneticist within hi mself to collaborate with each other probably worked better than a team with a crystallographer, a biophysicist, a biochemist and a geneticist who maynot even be interested in each other's problems.

AN ASSESSMENT OF THE PROSPECTS FOR INERTIAL FUSION ENERGY

National Academies Press The potential for using fusion energy to produce commercial electric power was first explored in the 1950s. Harnessing fusion energy offers the prospect of a nearly carbon-free energy source with a virtually unlimited supply of fuel. Unlike nuclear fission plants, appropriately designed fusion power plants would not produce the large amounts of high-level nuclear waste that requires long-term disposal. Due to these prospects, many nations have initiated research and development (R&D) programs aimed at developing fusion as an energy source. Two R&D approaches are being explored: magnetic fusion energy (MFE) and inertial fusion energy (IFE). An Assessment of the Prospects for Inertial Fusion Energy describes and assesses the current status of IFE research in the United States; compares the various technical approaches to IFE; and identifies the scientific and engineering challenges associated with developing inertial confinement fusion (ICF) in particular as an energy source. It also provides guidance on an R&D roadmap at the conceptual level for a national program focusing on the design and construction of an inertial fusion energy demonstration plant.

CATASTROPHE MODELING

A NEW APPROACH TO MANAGING RISK

Springer Science & Business Media Based on the research that has been conducted at Wharton Risk Management Center over the past five years on catastrophic risk. Covers a hot topic in the light of recent terroristic activities and nature catastrophes. Develops risk management strategies for reducing and spreading the losses from future disasters. Provides glossary of definitions and terms used throughout the book.

AN OPTION GREEKS PRIMER

BUILDING INTUITION WITH DELTA HEDGING AND MONTE CARLO SIMULATION USING EXCEL

Springer This book provides a hands-on, practical guide to understanding derivatives pricing. Aimed at the less quantitative practitioner, it provides a balanced account of options, Greeks and hedging techniques avoiding the complicated mathematics inherent to many texts, and with a focus on modelling, market practice and intuition.

PROCEEDINGS OF AICCE'19

TRANSFORMING THE NATION FOR A SUSTAINABLE TOMORROW

Springer Nature This book gathers the latest research, innovations, and applications in the field of civil engineering, as presented by leading national and international academics, researchers, engineers, and postgraduate students at the AWAM International Conference on Civil Engineering 2019 (AICCE'19), held in Penang, Malaysia on August 21-22, 2019. The book covers highly diverse topics in the main fields of civil engineering, including structural and earthquake engineering, environmental engineering, geotechnical engineering, highway and transportation engineering, water resources engineering, and geomatic and construction management. In line with the conference theme, "Transforming the Nation for a Sustainable Tomorrow", which relates to the United Nations' 17 Global Goals for Sustainable Development, it highlights important elements in the planning and development stages to establish design standards beneficial to the environment and its surroundings. The contributions introduce numerous exciting ideas that spur novel research directions and foster multidisciplinary collaborations between various specialists in the field of civil engineering.

CHEMISTRY OF ADVANCED ENVIRONMENTAL PURIFICATION PROCESSES OF WATER

FUNDAMENTALS AND APPLICATIONS

Newnes Chemistry of Advanced Environmental Purification Processes of Water covers the fundamentals behind a broad spectrum of advanced purification processes for various types of water, showing numerous applications through worked examples. Purification processes for groundwater, soil water, reusable water, and raw water are examined where they are in use full-scale, as a pilot approach, or in the laboratory. This book also describes the production of ceramic particles (nanochemistry) and materials for the creation of filtration systems and catalysts that are involved. Uses chemistry fundamentals to explain the mechanisms behind the various purification processes Explains in detail process equipment and technical applications Describes the production of ceramic particles and other new materials applicable to filtration systems Includes worked examples

GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX

DERIVATIVES MARKETS

Addison-Wesley 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. Geroge 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.

HANDBOOK OF FINANCIAL ENGINEERING

Springer Science & Business Media This comprehensive handbook discusses the most recent advances within the field of financial engineering, focusing not only on the description of the existing areas in financial engineering research, but also on the new methodologies that have been developed for modeling and addressing financial engineering problems. The book is intended for financial engineers, researchers, applied mathematicians, and graduate students interested in real-world applications to financial engineering.

MÖSSBAUER EFFECT IN LATTICE DYNAMICS

EXPERIMENTAL TECHNIQUES AND APPLICATIONS

John Wiley & Sons This up-to-date review closes an important gap in the literature by providing a comprehensive description of the Mössbauer effect in lattice dynamics, along with a collection of applications in metals, alloys, amorphous solids, molecular crystals, thin films, and nanocrystals. It is the first to systematically compare Mössbauer spectroscopy using synchrotron radiation to conventional Mössbauer spectroscopy, discussing in detail its advantages and capabilities, backed by the latest theoretical developments and experimental examples. Intended as a self-contained volume that may be used as a complete reference or textbook, it adopts new pedagogical approaches with several non-traditional and refreshing theoretical expositions, while all quantitative relations are derived with the necessary details so as to be easily followed by the reader. Two entire chapters are devoted to the study

of the dynamics of impurity atoms in solids, while a thorough description of the Mannheim model as a theoretical method is presented and its predictions compared to experimental results. Finally, an in-depth analysis of absorption of Mössbauer radiation is presented, based on recent research by one of the authors, resulting in an exact expression of fractional absorption, otherwise unavailable in the literature. The whole is supplemented by elaborate appendices containing constants and parameters.

HIGHER ALGEBRA

A SEQUEL TO ELEMENTARY ALGEBRA FOR SCHOOLS

ACTEX STUDY MANUAL

SOA EXAM FM, CAS EXAM 2

ACTEX STUDY MANUAL FOR SOA EXAM P

A HISTORY OF GEORGIA

FROM ITS FIRST DISCOVERY BY EUROPEANS TO THE ADOPTION OF THE PRESENT CONSTITUTION IN MDCCXCVIII

HONEYPOTS

TRACKING HACKERS

Addison-Wesley Professional Provides instructions for using honeypots to impede, trap, or monitor online attackers, and discusses how honeypots can be used, the roles they can play, and legal issues surrounding their use.

WEST INDIAN FAMILY STRUCTURE

Seattle : University of Washington Press, c1962, 1971 printing.

SCALE SPACE AND PDE METHODS IN COMPUTER VISION

5TH INTERNATIONAL CONFERENCE, SCALE-SPACE 2005, HOFGEISMAR, GERMANY, APRIL 7-9, 2005, PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of the 5th International Conference on Scale Space and PDE Methods in Computer Vision, Scale-Space 2005, held in Hofgeismar, Germany in April 2005. The 53 revised full papers presented were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections on novel linear spaces, image features, deep structure, image processing, medical applications, contours, tensors, non-linear filters, and motion.

POST-QUANTUM CRYPTOGRAPHY

Springer Science & Business Media Quantum computers will break today's most

popular public-key cryptographic systems, including RSA, DSA, and ECDSA. This book introduces the reader to the next generation of cryptographic algorithms, the systems that resist quantum-computer attacks: in particular, post-quantum public-key encryption systems and post-quantum public-key signature systems. Leading experts have joined forces for the first time to explain the state of the art in quantum computing, hash-based cryptography, code-based cryptography, lattice-based cryptography, and multivariate cryptography. Mathematical foundations and implementation issues are included. This book is an essential resource for students and researchers who want to contribute to the field of post-quantum cryptography.

CLOSING THE COVERAGE GAP

ROLE OF SOCIAL PENSIONS AND OTHER RETIREMENT INCOME TRANSFERS

World Bank Publications This title looks at water availability and water demand in various sectors, estimating the water gap today and through the year 2050. It presents a methodology to prioritise options to bridge the water gap, using the marginal cost of water approach.

BIOINFORMATICS FOR BEGINNERS

GENES, GENOMES, MOLECULAR EVOLUTION, DATABASES AND ANALYTICAL TOOLS

Elsevier Bioinformatics for Beginners: Genes, Genomes, Molecular Evolution, Databases and Analytical Tools provides a coherent and friendly treatment of bioinformatics for any student or scientist within biology who has not routinely performed bioinformatic analysis. The book discusses the relevant principles needed to understand the theoretical underpinnings of bioinformatic analysis and demonstrates, with examples, targeted analysis using freely available web-based software and publicly available databases. Eschewing non-essential information, the work focuses on principles and hands-on analysis, also pointing to further study options. Avoids non-essential coverage, yet fully describes the field for beginners Explains the molecular basis of evolution to place bioinformatic analysis in biological context Provides useful links to the vast resource of publicly available bioinformatic databases and analysis tools Contains over 100 figures that aid in concept discovery and illustration

MORNEAU SOBECO HANDBOOK OF CANADIAN PENSION AND BENEFIT PLANS

CCH Canadian Limited

SELECTED PROBLEMS OF THE VIETNAMESE MATHEMATICAL OLYMPIAD (1962-2009)

World Scientific Vietnam has actively organized the National Competition in Mathematics and since 1962, the Vietnamese Mathematical Olympiad (VMO). On the

global stage, Vietnam has also competed in the International Mathematical Olympiad (IMO) since 1974 and constantly emerged as one of the top ten. To inspire and further challenge readers, we have gathered in this book selected problems of the VMO from 1962 to 2008. A number of Selection Test problems are also included to aid in the formation and training of a national team for IMO. The book is highly useful for high school students and teachers, coaches and instructors preparing for mathematical olympiads, as well as non-experts simply interested in having the edge over their opponents in mathematical competitions.

SPECTRAL AND HIGH-ORDER METHODS WITH APPLICATIONS

谱方法和高阶方法及其应用

STUDY GUIDE AND SOLUTIONS MANUAL FOR EXAM P OF THE SOCIETY OF ACTUARIES

Stipes Pub Llc