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May - October 2019

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ACTEX Learning

Learn Today. Lead Tomorrow.

Dear Actuaries, Actuarial Educators & Students,

These are uncertain and exciting times! In recent industry events, the number of presentations on innovation and InsurTech, combined with the massive changes coming to the industry and the actuarial profession, is striking. Enthusiasm and fear join together, as is often the case when significant change comes our way.

Our response to this changing environment is to update our materials and offer new delivery methods in order to continue supporting you throughout your actuarial journey. ACTEX offers all you need to stay on top of your game and up-to-speed with industry developments, CPD requirements, and continue passing exams today so that you can lead tomorrow.

Here are some highlights of what is available and coming down the pipe to smooth your path to success:

- An updated, 2nd edition of *Actuarial Exam Tactics: Learn More, Study Less*, co-authored by the world's youngest FSA. Features new sections on adherence (how to stick to your study schedule) and what to do if you fail an exam.
- A new online exam prep course for EA-2F taught by Shelly Raad, FSA, EA, MAAA.
- Study manuals and resources to help you pass the SOA's Predictive Analytics Exam.
- Over 60 live and on-demand webinars on a variety of training and CPD topics including leadership and communications, spreadsheets, Python, R and SQL.
- Customized corporate live training options.
- An upcoming text offering a complete introduction to R specifically tailored for actuaries.
- A transition of our VEE Corporate Finance course to the new Accounting & Finance requirement, offering these topics together or separately. Comes on-demand with a Pass Guarantee.
- GOAL, an online exam prep adaptive question bank, with over 6,500 questions for P, FM, IFM, LTAM, STAM, and MAS-I. Free access with the purchase of any of our study manuals or with a classroom-adopted ACTEX textbook.
- Study manual trials: try any ACTEX or ASM study manual free for 24 hours. The trial comes with complete access to the entirety of the manual and all of its *StudyPlus*⁺ bonus content.
- Study manual transitions: Pre-order any ACTEX or ASM study manual (print, digital or bundle) to access a digital copy of the current edition and receive a copy of the updated text as soon as it's available.

If you have ideas for new products or would like to work with ACTEX, please reach out to me with your thoughts. May these uncertain and exciting times propel you to be the best version of yourself both personally and professionally. I look forward to seeing what the future holds for all of us.

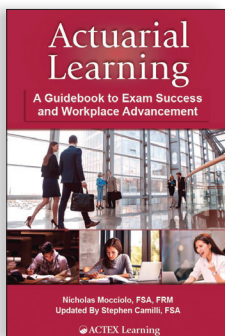
Actuari ally Yours,

Stephen Camilli, FSA
President
Stephen@ActexMadRiver.com

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Exam and Career Skills Resources



Actuarial Learning: A GuideBook to Exam Success and Workplace Advancement

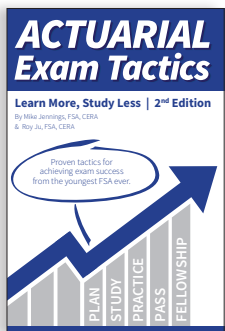
Nicholas Mociolo, FSA, FRM | Updated by Stephen Camilli, FSA

129 pages, 6" x 9" Softcover \$19.99 eBook \$9.99 ISBN: 978-1-62542-375-6

An efficient and effective book written specifically for actuarial students and those who are considering an actuarial career. It includes detailed information on the various actuarial organizations in the United States, Canada and beyond, along with descriptions of education programs. Learn how to maximize success on the exams, the non-technical skills critical to longer-term success in the profession, and how to advance your career. It is a perfect single source career development reference for aspiring actuaries.

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"Given that you can spend over 300 hours studying for just one actuarial examination, it is well worth an investment of two to three hours to read this fine summary of how to study for and write actuarial exams. Written in an easy style, this book is full of sound suggestions to improve your efficiency on these trying examinations. Not only that, but if you follow the advice given faithfully, it could just make the difference between receiving a six versus a five." Robert L. Brown, Professor Emeritus, University of Waterloo; Past President, Society of Actuaries and International Actuarial Association



Actuarial Exam Tactics: Learn More, Study Less, 2nd Edition

Mike Jennings, FSA, CERA | Roy Ju, FSA, CERA

100 pages, 6" x 9" Available in softcover or eBook formats, see website for details. ISBN: 978-1-63588-890-4

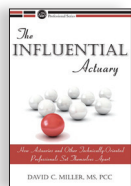
Learn how to pass your exams while studying less with strategies from the world's youngest actuary. This book presents the study strategies that helped Roy Ju become the world's youngest actuary, finishing the SOA's exams, and becoming an FSA, at the age of 20. As co-author Mike Jennings tested these techniques, he accelerated his own exam process, passing 2 preliminary exams, a fellowship exam, the FAP modules and the FSA modules in 15 months.

With endorsements from professors and actuaries who have been through the exam process, this book transforms the study habits of actuarial students to help them pass their exams while maintaining a healthy work-life balance.

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"It was my great privilege to teach at Drake University when both Roy and Mike were students. What is most impressive about their exam success is that they did not achieve it at the expense of getting the most out of their college experiences. One of the reasons many people cite for not completing actuarial exams is the work-life balance. Anyone in this situation, at a plateau or contemplating stopping the actuarial exam, should read this book and consider making adjustments to their study process. For those at the beginning of the exam journey, this is a must read!" - Susan Watson, MS, FSA, Assistant Professor of Actuarial Science at Drake University

The 1st edition is still available while supplies last, see website for details.

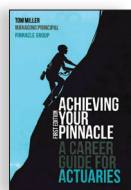


The Influential Actuary: How Actuaries and Other Technically-Oriented Professionals Set Themselves Apart

David Miller, FSA, MS, PCC

247 pages, 6" x 9" Softcover \$35.00 eBook \$24.95 ISBN: 978-1-56698-761-5

Stand out from the pack. Covers specific tools and strategies that enable actuaries to earn how to become more influential in the way they communicate, influence and relate to others.



Achieving Your Pinnacle: A Career Guide for Actuaries

1st Edition, Tom Miller, Managing Principal, Pinnacle Group

173 pages, 6" x 9" Softcover \$19.95 FREE eBook - IMMEDIATE DOWNLOAD ISBN: 978-1-62542-638-3

Make yourself more marketable. Provides readers with valuable insights regarding the actuarial employment market and what employers are really looking for when they interview you.

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Pass Guarantee | On-demand 180-day access | Flexible final exam dates

ACTEX offers convenient online courses approved for SOA VEE & CAS VEE credits. All courses are available on-demand. Students complete the courses at their own pace and take the final exams on the date of their choosing. A remote proctor service option is available for CBT final exams.



Why choose an ACTEX VEE Online Course?

- Designed specifically for actuaries
- Pass Guarantee: students unable to achieve a passing score may retake the entire course, or the final examination only, one time, at no additional charge.
- Flexible final exam dates: our on-demand courses with CBT final exams allow students to choose their exam date and time with no restrictions.
- CBT or Paper & Pencil Exams: students can arrange a CBT final exam or be mailed a paper and pencil exam.
- Proctoring service: our VEE courses have a graded final exam requiring a proctor. Students have the option to use a convenient remote proctoring service, ProctorU, for their exam.
- No extra fees for course materials

Learn more at www.ACTEXMadRiver.com/VEE

From our students:

"Dr. Perry, I recently finished your applied statistics VEE through ACTEX. I just wanted to reach out and say thank you! Having the flexibility of taking the class at my own pace with my work schedule was huge for me. The structure of the class had a great flow to it and your instructor notes were extremely helpful for learning the material with a nice touch of personality that a textbook lacks. As I'm pushing to fulfill all of my ASA requirements before the curriculum change, I'll be taking both the economics and corporate finance VEEs... Thanks for putting together such a great class!"

"I enjoyed the course with Dr. Li and Dr. Ng. I think that they both did a great job of helping students understand the concepts of Corporate Finance. Both Dr. Li and Dr. Ng were prompt in answering questions from students in the online course forums. Thanks to Dr. Li and Dr. Ng, I feel that I can speak, think, and communicate concepts within the framework of Corporate Finance clearly."

Mathematical Statistics

Johnny Li, Ph.D., FSA | Andrew Ng, Ph.D., FSA

\$579.00 180-day subscription Required Materials Included CBT or Written Exam Options



The course consists of comprehensive lecture notes and video lectures with materials organized into 4 modules: sampling distributions, point estimation, interval estimation, and hypothesis testing. The readings, authored by the instructors, are tailored to the needs of actuarial students and practicing actuaries. Unlike mathematical statistics textbooks, which emphasize proofs and derivations, these course readings focus on the applications that are most useful for your future actuarial work and study. All required readings are included in course fee. The depth, pace and structure of this course is comparable to a senior undergraduate course in Mathematical Statistics.

Validation by Educational Experience *(continued)*

Corporate Finance (Fulfills complete VEE Accounting and Finance requirements through 6/30/19)

Johnny Li, Ph.D., FSA | Andrew Ng, Ph.D., FSA

\$579.00 180-day subscription Required Materials Included CBT or Written Exam Options



The course materials are meticulously organized into four modules, helping you achieve the learning objectives prescribed by the SOA with ease. Activities include video lectures, reading, and completing assignments and/or practice problems. The readings, authored by the instructors themselves, are tailor-made for actuarial students and practicing actuaries. Unlike corporate textbooks which are written for a more general readership, this course's readings use notation and formulas that are fully consistent with those used in other actuarial courses or exams.

Accounting & Finance (Effective 7/1/19)

ACTEX is ready for the new VEE Accounting & Finance requirement to roll out July 1, 2019. We will be administering courses in both the Accounting and the Finance components, as well as a combined course for full credit. Look for these to roll out as we get closer to July. In the meantime, there is still an opportunity to complete the Corporate Finance course and earn credit for the complete Accounting & Finance requirement. You just need an earned date prior to July 1st.

In light of the upcoming July 1st deadline, ACTEX is also offering a little peace of mind. In addition to our standard pass guarantee (allowing you one free retake of the course or final exam in the event of a failed attempt) we will enroll you into the new Accounting & Finance course should you fail the exam and miss the deadline. Meaning the pass guarantee holds true even while the requirements change!

Microeconomics

John Perry, Ph.D.

\$449.00 180-day subscription Required Materials Included CBT or Written Exam Options



Comparable to one undergraduate semester in microeconomics, this course provides a foundation in microeconomic terminology, models, and analysis. The core ideas of supply and demand are developed and applied. In particular, how rational consumers interact in markets to maximize utility with firms seeking to maximize profits under different market structure, is explored. The topics of elasticity, long run and short run choices, the impact and role of taxes and government intervention, and externalities on markets are discussed. Successful students will learn microeconomic concepts and how they are applicable in actuarial work.

This course consists of assigned readings, instructors notes, video lectures, suggested practice problems with full solutions, graded homework assignments, office hours and a discussion forum.

Macroeconomics

John Perry, Ph.D.

\$449.00 180-day subscription Required Materials Included CBT or Written Exam Options



Provides a foundation in macroeconomics terminology, models and analysis and consists of assigned readings, instructor notes, video lectures, suggested practice problems with full solutions, graded homework assignments, office hours, and a discussion forum.

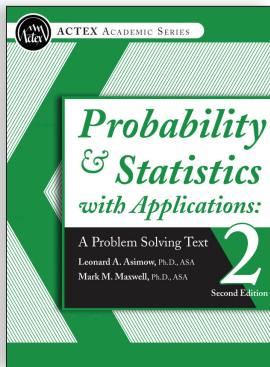
The depth of the course is comparable to a one-semester, undergraduate course in macroeconomics. Successful students will learn macroeconomic concepts and how they are applicable in actuarial work.

Bundle: Microeconomics and Macroeconomics

\$849.00 180-day subscription Required Materials Included CBT or Written Exam Options



Save \$49.00. All-inclusive Course Bundle: Course fee includes all materials from Microeconomics & Macroeconomics classes above.



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Probability and Statistics with Applications: A Problem Solving Text*

2nd Edition

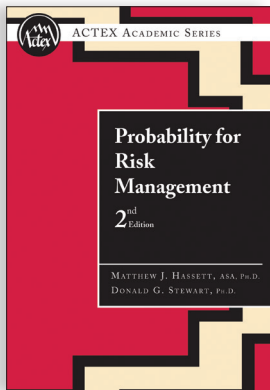
Leonard A. Asimow, Ph.D., ASA | Mark M. Maxwell, Ph.D., ASA

600 pages, 7" x 10" Softcover \$127.00 eBook \$117.00

ISBN: 978-1-62542-472-3 Solutions Manual: 978-1-62542-473-0

Probability and Statistics with Applications is an introductory textbook designed to make the subject accessible to college freshmen and sophomores concurrent with Calc II and III, with a prerequisite of just one semester of calculus. It is organized specifically to meet the needs of students who are preparing for the Society of Actuaries qualifying Examination P and Casualty Actuarial Society's Exam MAS-I, but is also appropriate for a general student population.

Sample actuarial exam problems are integrated throughout the text along with an abundance of illustrative examples and 870 exercises.



[View Sample Online](#)

Probability for Risk Management*

2nd Edition

Matthew J. Hassett, Ph.D. | Donald G. Stewart, Ph.D.

434 pages, 6" x 9" Softcover \$106.00 eBook \$96.00

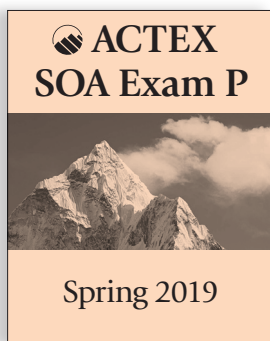
ISBN: 978-1-56698-548-2 Solutions Manual: 978-1-56698-583-3

This unique text differs from most intermediate probability texts in that it focuses the theory directly on applications in the general field of financial risk management, including insurance, economics and finance. It is appropriate for a first course in probability for students having already had two semesters of calculus.

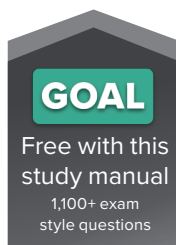
This text was designed for several audiences, including students of actuarial science, mathematical economics, finance and risk management. It assumes prior knowledge of calculus in the presentation. Past actuarial exam questions are included at the end of each chapter.

From our students:

"Dr. Hassett's book came in very handy — it is so well tailored to the Exam P syllabus that I did not have to look anywhere else for theory and introductory problems. I passed Exam P with a grade of 8."



[View Sample Online](#)



ACTEX SOA Exam P Study Manual

Spring 2019 Edition

Samuel Broverman, Ph.D., ASA

StudyPlus+ Bonus Material: GOAL, flashcards, formula sheet, Excel and R training webinars, career guides & more.

570 pages, 9" x 11" Spiral-Bound \$114.00 | Digital & Bundle Available
ISBN: 978-1-63588-714-3

The ACTEX Exam P Study Manual covers all of the SOA learning objectives for this exam. It is the time-tested market leader in Exam P study guides for self-study students, as well as for students enrolled in college and university courses. The manual contains 10 modules with examples and problem sets from prior actuarial exams at the end of each module, all with detailed solutions. There are over 500 problems included in this manual and comprehensive review notes and illustrative examples for each topic.

The Spring 2019 Edition contains 12 original practice exams with detailed solutions, providing students with ample opportunity for the necessary drilling of important concepts and formulas critical for exam success.



Additional Study Materials for SOA Exam P

GOAL for Exam P: 1,100+ exam-style questions

Free 2-day trial available. (Included with purchase of ACTEX and ASM Exam P study manuals)

GOAL

Practice. Quiz. Test. Customize your study experience by choosing between practice, quiz and simulated exam learning modes and adjust difficulty levels between core, advanced and mastery. Use this digital study tool to test your knowledge and gain greater understanding of your strengths and weaknesses. See page 9 for more information.

ACTEX Online Course for Exam P Preparation

On-demand | 10-Week | 18-Week Courses

Instructors: Richard Owens, FSA or Bill Cross, Ph.D., FSA



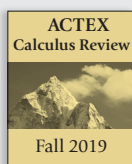
The ACTEX Online Course for Exam P provides students all of the necessary instruction, materials and support needed to pass Exam P. Students have access to a variety of practice problems, video solutions, timed practice tests, lecture videos, and much more. In addition, students will have one-on-one support from our skilled instructors for 180-days from the date of purchase. Visit our website for more details and timeline course dates.



ACTEX Calculus Review

Fall 2019 Edition

Samuel Broverman, Ph.D., ASA



Focused on what you need to know for your exams. Features numerous examples and problem sets related to each topic with detailed solutions and 12 comprehensive tests to help you self-assess your current level of preparedness.

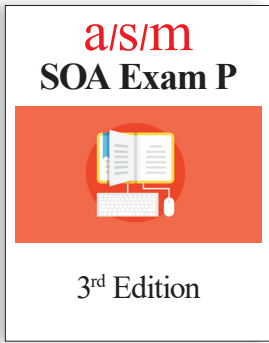


ACTEX Exam P Online Practice Test Series with Video Solutions (3 Tests)
Instructor: Richard Owens, FSA

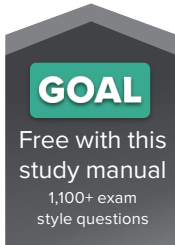


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ASM SOA Exam P Study Manual

3rd Edition

Abraham Weishaus, Ph.D., FSA, CFA, MAAA

StudyPlus+ Bonus Material: GOAL, flashcards, formula sheet, Excel and R training webinars, career guides & more.

500 pages, 9" x 11" 3-hole punch \$114.00 | Digital & Bundle Available
ISBN: 978-1-63588-733-4

This manual offers comprehensive coverage of the syllabus for Exam P in 30 lessons written by student favorite, Abe Weishaus. The manual has over 80 examples and 597 exercises. Of these exercises, 151 are original; the others are taken from old exams or are SOA sample questions. All exercises have complete solutions. In addition, the manual has 6 practice exams consisting of 30 original questions.



Additional Study Materials for SOA Exam P

GOAL for Exam P: 1,100+ exam style questions

Free 2-day trial available. (Included with purchase of ACTEX and ASM Exam P study manuals)

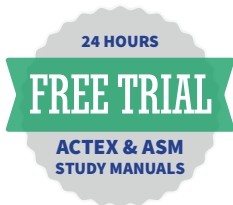
GOAL

Practice. Quiz. Test. Customize your study experience by choosing between practice, quiz and simulated exam learning modes and adjust difficulty levels between core, advanced and mastery. Use this digital study tool to test your knowledge and gain greater understanding of your strengths and weaknesses. See page 9 for more information.



ACTEX/ASM Flashcards

Includes Printed & Virtual eFlashcards

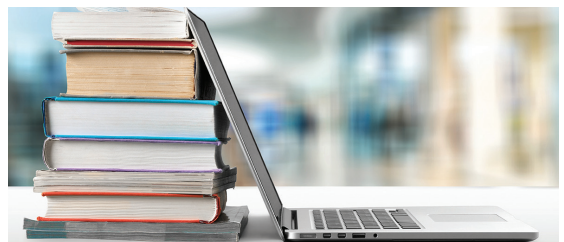


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With expanded study manual trials of both ACTEX and ASM brands, you can review a digital manual for 24 hours before making your purchase decision. The trial includes complete access to the entirety of the study manual and all of its **StudyPlus+** bonus content. Check out practice problems, detailed solutions and test your skills with GOAL, our guided online actuarial learning test prep tool.

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- 3 difficulty modes

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Available for P, FM, IFM, LTAM, STAM, MAS-I

Flag for review, record notes & email the professor

Monitor difficulty level

Got it wrong? Often there is a simple reason why

Helpful strategies to get you started

Graphs and other solution techniques demonstrated when applicable

Commonly encountered errors

actuarial e-learning portal

Home Seminar Administrator Seminar Users Support Log Off

GOAL Problem # GO Problem 1 of 6

Question Difficulty: Mastery

A loan is being repaid with 2 payments: A first payment of \$1,500 at the end 2 years and a second payment of \$1,600 at the end of 7 years.

Determine the loan amount given an annual effective rate of discount of 2%.

A 2,834.65

B 2,829.60

C 2,829.60

D 2,759.65

You used the formula:
 $1,500(0.98)^{-2} + 1,600(0.98)^{-7}$ that gives AV's instead of PV's using a 2% discount rate.

Help Me Start

Sketch a time diagram showing the two payments.

Solution

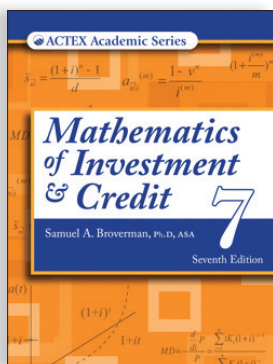
The loan is the PV of the two payments using the annual effective discount rate of 2%:

$$L = 1,500(1 - .02)^2 + 1,600(1 - .02)^7 = 1,500(0.98)^2 + 1,600(0.98)^7 = 2,829.60.$$

Common Questions & Errors

Common Error 1: Finding the amount $2000v^{15-4+1}$ which is the principal repaid in the 4th payment. Subtract the answer from the annual payment amount to get the interest paid.

Official SOA Exam FM Syllabus References



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Mathematics of Investment and Credit*

7th Edition

Samuel Broverman, Ph.D., ASA

608 pages, 6" x 9" Softcover \$122.00 eBook \$112.00

ISBN: 978-1-63588-221-6 Solutions Manual: 978-1-63588-223-0

Mathematics of Investment and Credit is a leading textbook covering the topic of interest theory. It is the required or recommended text in many college and university courses on this topic, as well as for the Society of Actuaries Exam FM.

This text provides a thorough treatment of the theory of interest and its application to a wide variety of financial instruments. It emphasizes a direct-calculation approach to reaching numerical results, and uses a gentle thorough pedagogic style.

This text includes detailed treatments of the term structure of interest rates, forward contracts of various types, interest rate swaps, financial options, and option strategies. Key formulas and definitions are highlighted. Real world current events are included to demonstrate key concepts. The text contains a large number of worked examples and end-of-chapter exercises.

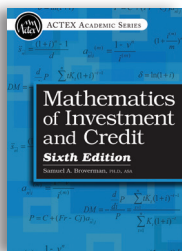
The seventh edition includes updates driven by changes for the learning objectives for Exam FM, updated examples and exercises and exposition improvements. There have been significant updates to the topics of duration and interest rate swaps.

From professors who have used this textbook:

"The Mathematics of Investment and Credit book is an excellent textbook. The minute I started reading it, I knew it was exactly what I needed for my mathematics of finance class which I usually teach at American University in Cairo. Broverman's book suits a purely actuarial audience as well as non-specialists. Many of the exercises at the end of every chapter are versatile and comprise both theory and computations. This book is clearly written and concise and offers much more information than I expected. Thank you, Samuel, for a job well done and I am looking forward to using your book again."

From our students:

"Thank you for writing a quality textbook that covered the material for Exam FM. I was able to study independently for and pass the second exam without any foreknowledge of financial mathematics due to the quality of your textbook. Many thanks for the time and effort you put into writing it."



Still Available: Mathematics of Investment and Credit*

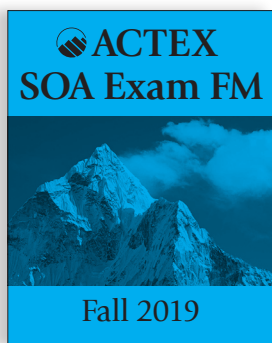
6th Edition

Samuel Broverman, Ph.D., ASA

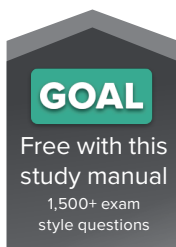
580 pages, 6" x 9" Softcover \$120.00 eBook \$110.00

ISBN: 978-1-62542-485-3 Solutions Manual: 978-1-62542-486-0

The 6th edition textbook and solutions manual are still available for a limited time. See website for details.



[View Sample Online](#)



ACTEX SOA Exam FM Study Manual

Fall 2019 Edition

John Dinius, FSA | Matthew J. Hassett, Ph.D.
Michael I. Ratliff, Ph.D., ASA | Toni Coombs Garcia
Amy C. Steeby, MBA, MBd



StudyPlus+ Bonus Material: GOAL, flashcards, formula sheet, Excel and R training webinars, career guides & more.

765 pages, 9" x 11" Spiral-Bound \$159.00 | Digital & Bundle Available
ISBN: 978-1-63588-811-9

The ACTEX Study Manual for Exam FM is comprehensive and is written in an easy-to-understand style, providing thorough explanations of all the Exam FM topics, from the basic material to the most difficult topics. Concepts are introduced in a clear way so that students can quickly understand new topics.

The manual was updated to reflect changes in the SOA syllabus for Exam FM which are effective with the October 2018 administration of the exam, as outlined by the SOA.

Among the many features of this manual are detailed review examples and exercises embedded into the text, so that students can see how to apply each new concept as it is learned. There are many practice problems at the end of each module, along with a summary of the key formulas introduced in the module. Also included are three "mid-term" exams at the end of major topics, which allow the student to gauge his/her progress. In addition, the manual provides step-by-step calculator instructions for all of the relevant features of the SOA-approved financial calculator.

The material for Exam FM is presented in 3 sections, each consisting of 3 modules, with a "mid-term" exam at the end of each section. Each section builds on the preceding sections, and together they cover all of the Exam FM material in a logical and thoroughly understandable way. The manual concludes with eleven sample practice exams.

Additional Study Materials for SOA Exam FM

GOAL for Exam FM: 1,500+ exam style questions

Free 2-day trial available. (Included with purchase of ACTEX and ASM Exam FM study manuals)

GOAL

Practice. Quiz. Test. Customize your study experience by choosing between practice, quiz and simulated exam learning modes and adjust difficulty levels between core, advanced and mastery. Use this digital study tool to test your knowledge and gain greater understanding of your strengths and weaknesses. See page 9 for more information.

ACTEX Online Course for Exam FM Preparation

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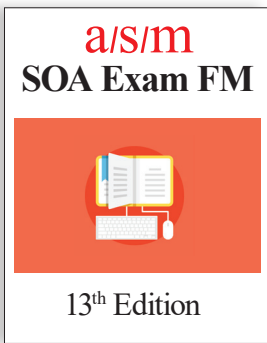


The ACTEX Online Course for Exam FM provides students all of the necessary instruction, materials and support needed to pass Exam FM. Students will have access to a variety of practice problems, video solutions to practice problems, timed practice tests, lecture videos, and much more. In addition, students will have one-on-one support from our skillful instructors for 180-days from the date of purchase. Visit our website for more details and timeline course dates.

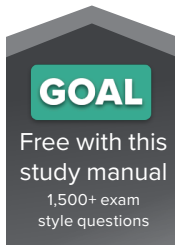


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ASM SOA Exam FM Study Manual

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Wafaa Shaban, ASA, Ph.D. | Harold Cherry, FSA, MAAA



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The 13th edition has an appendix presenting helpful tips on using the Texas Instruments BA II Plus (the recommended calculator for this exam).

- A new learning objective has been added requiring students to be able to calculate the present value of a set of cash flows, using a yield curve developed from forward and spot rates.
- The manual shows tricks and shortcuts for various types of problems, warns of common traps that students fall into, and how to avoid them.
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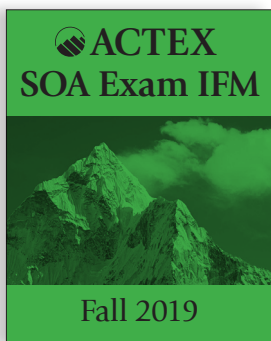
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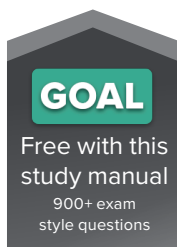


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ACTEX SOA Exam IFM Study Manual

Fall 2019 Edition
Johnny Li, Ph.D., FSA



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1382 pages, 9" x 11" Spiral-Bound \$165.00 | Digital & Bundle Available
ISBN: 978-1-63588-816-4

This manual is divided into 2 parts: quantitative and qualitative. The quantitative encompasses all of the topics covered in *Derivatives Markets* (the required text authored by McDonald) and the technical topics from *Corporate Finance* (the required text authored by Berk et al.). Calculations are progressively harder and range from the binomial model to various versions of the Black-Scholes formula.

The qualitative section encompasses definitions and hard facts. To help you breeze through this topic, the materials are presented in an easy-to-read point form, with the most important points clearly highlighted.

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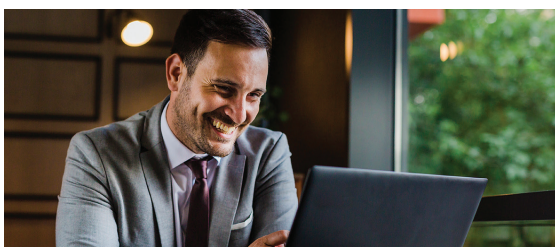
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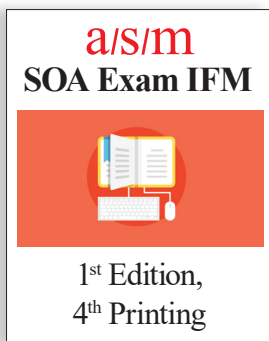
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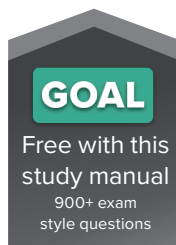


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ASM SOA Exam IFM Study Manual

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Abraham Weishaus, Ph.D., FSA, CFA, MAAA

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747 pages, 9" x 11" 3-hole punch \$169.00 | Digital & Bundle Available
ISBN: 978-1-63588-729-7

This manual offers comprehensive coverage of the syllabus for Exam IFM. This first edition has over 700 pages and five original 30-question practice exams with detailed solutions. While this manual will be adequate for Exam IFM, the syllabus textbooks are referenced in each lesson if you wish to use them.



Additional Study Materials for SOA Exam IFM

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GOAL for Exam IFM: 900+ exam style questions

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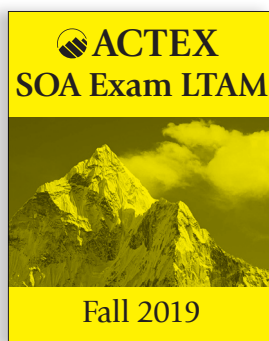
(Included with purchase of ACTEX and ASM Exam IFM study manuals)
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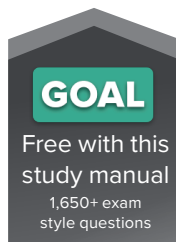
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ACTEX SOA Exam LTAM Study Manual

Fall 2019 Edition

Johnny Li, Ph.D., FSA | Andrew Ng, Ph.D., FSA

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1800 pages, 9" x 11" Spiral-Bound \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-821-8

The ACTEX LTAM authors focus on providing the understanding required to solve practical problems in an exam setting. Theoretical concepts are introduced through motivating examples to make learning as direct as possible.

This manual covers all topics in the SOA Exam LTAM syllabus. Old exam MLC problems that are applicable to the LTAM exam syllabi are integrated into the text as an additional teaching opportunity. Each chapter concludes with practice problems. At the end of the manual there are complete sample exams offering additional practice.



Additional Study Materials for SOA Exam LTAM

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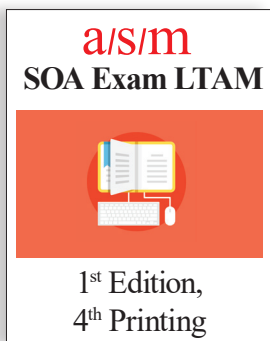
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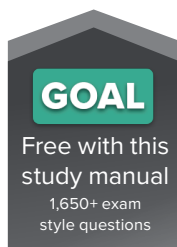


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ASM SOA Exam LTAM Study Manual

1st Edition, 4th Printing
Abraham Weishaus, Ph.D., FSA, CFA, MAAA



StudyPlus+ Bonus Material: GOAL, flashcards, formula sheet, Excel and R training webinars, career guides & more.

2000 pages, 9" x 11" 3-hole punch \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-776-1

This printing has updated ILT questions, previously used on the MLC exam, to SULT questions used on Exam LTAM. This edition has over 1800 end-of-lesson exercises, including over 750 original and 1050 past exam questions, plus over 350 examples and 90 in-lesson exercises. In addition to these exercises, there are thirteen practice exams, all having 20 multiple choice and 6-7 written answer questions, just like the real exam. Many students have found these manuals adequate by themselves for exam preparation, but the textbook for the exam is referenced in each lesson if you wish to use it.

Additional Study Materials for SOA Exam LTAM

GOAL for Exam LTAM: 1,650+ exam style questions

Free 2-day trial available. (Included with purchase of ACTEX and ASM Exam LTAM study manuals)

GOAL

Practice. Quiz. Test. Customize your study experience by choosing between practice, quiz and simulated exam learning modes and adjust difficulty levels between core, advanced and mastery. Use this digital study tool to test your knowledge and gain greater understanding of your strengths and weaknesses. See page 9 for more information.

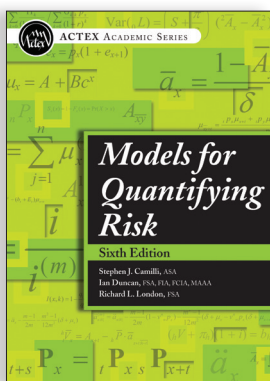


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A Reference for SOA LTAM

Addresses All Learning Objectives for Exam EA-1



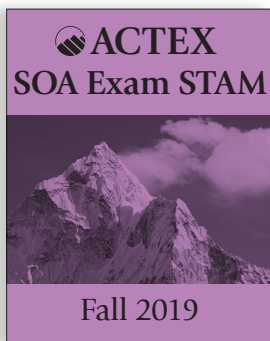
Models for Quantifying Risk

6th Edition

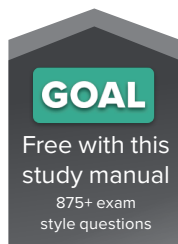
Stephen J. Camilli, FSA | Ian Duncan, FSA, FIA, FCIA, FCA, CSPA, MAAA |
Richard L. London, FSA

524 pages, 7" x 10" Softcover \$99.00 eBook \$89.00
ISBN: 978-1-62542-347-4 Solutions Manual: 978-1-62542-348-1

The sixth edition of this textbook presents a variety of stochastic models for actuaries to use in undertaking the analysis of risk. It is designed to be appropriate for use in a two or three semester university course in basic actuarial science. Originally written with the SOA Exam MLC and CAS Exam LC in mind, this textbook covers approximately 80% of the material for SOA Exam LTAM. The SOA study notes (free on the SOA website) cover the other 20%. Models are evaluated in a generic form with life contingencies included as one of many applications of the science. Students will find this book to be a valuable reference due to its easy-to-understand explanations and end-of-chapter exercises.



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ACTEX SOA Exam STAM Study Manual

Fall 2019 Edition

Samuel Broverman, Ph.D., ASA

StudyPlus+ Bonus Material: GOAL, flashcards, formula sheet, Excel and R training webinars, career guides & more.

1125 pages, 9" x 11" Spiral-Bound \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-806-5

The manual covers all of the topics outlined in the exam syllabus (with about 80% or more of the material on the STAM Exam having been on the former Exam C.) Some topics are covered more in-depth such as maximum likelihood estimation and Bayesian credibility. The prerequisite concepts to modeling and model estimation are reviewed in this study guide.

The study guide begins with a detailed review of probability distribution concepts such as distribution function, hazard rate, expectation and variance. The notes and examples are divided into 42 sections, with suggested time frames for covering the material. There are almost 200 examples in the notes and over 900 exercises in the problem sets, all with detailed solutions. Including the 5 practice exams, there are a total of almost 1300 examples, problems and sample exam questions with detailed solutions.



Additional Study Materials for SOA Exam STAM

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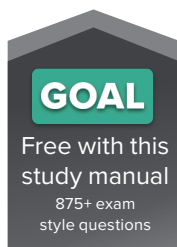
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Abraham Weishaus, Ph.D., FSA, CFA, MAAA

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1500 pages, 9" x 11" 3-hole punch \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-794-5

Each section includes end-of-lesson exercises, many of which are original. In addition to these exercises, there are twelve practice exams, all having 35 multiple-choice questions with complete solutions. Many students have found ASM manuals adequate by themselves for exam preparation, but the textbooks for the exams are referenced in each lesson if you wish to use them. ASM's Exam STAM manual offers comprehensive coverage of the syllabus.

Additional Study Materials for SOA Exam STAM

GOAL for Exam STAM: 875+ exam style questions

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(Included with purchase of ACTEX and ASM Exam STAM study manuals) Practice. Quiz. Test. Customize your study experience and test your knowledge. See page 9 for more information.

GOAL



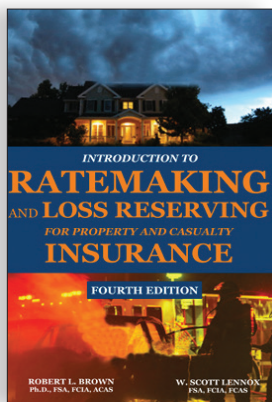
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Required Reading for SOA STAM



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Introduction to Ratemaking and Loss Reserving for Property and Casualty Insurance

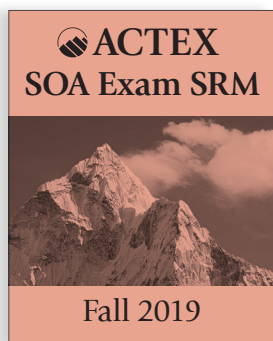
4th Edition

Robert L. Brown, Ph.D., FSA, FCIA, ACAS | W. Scott Lennox, FSA, FCIA, FCAS

220 pages, 6" x 9" Softcover \$91.00 eBook \$81.00

ISBN: 978-1-62542-474-7 Solutions Manual: 978-1-62542-475-4

This text provides a basic foundation of knowledge concerning two fundamental building blocks of property/casualty actuarial work: ratemaking and loss reserving. Although the material is of property/casualty origins, the methods presented have potential application in other insurance areas including health insurance and risk management. The text contains a number of worked examples and end-of-chapter exercises.



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ACTEX SOA Exam SRM Study Manual

Fall 2019 Edition

Runhuan Feng, Ph.D., FSA, CERA | Daniël Linders, Ph.D. | Ambrose Lo, Ph.D., FSA, CERA



StudyPlus+ Bonus Material: flashcards, Excel and R training webinars, career guides & more.

600 pages, 9" x 11" Spiral-Bound \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-723-5

Capitalizing on the authors' experience in researching and teaching the associated syllabus topics, this manual helps you grasp the material in Exam SRM effectively and efficiently. It features carefully written expositions interspersed with mnemonics, exam tips, and unique insights into the subject,

as well as more than 400 practice problems and their solutions, both original and from relevant past exams. This manual concludes with an original practice exam, including detailed solutions. Exam SRM includes a number of topics not previously covered in SOA exams including generalized linear models, decision trees, principal components analysis and cluster analysis.

Additional Study Materials for SOA Exam SRM



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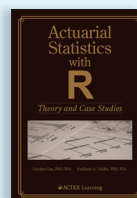
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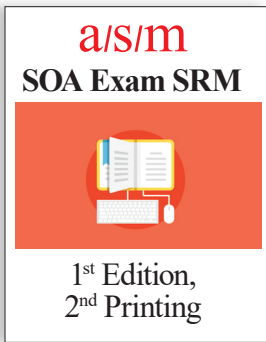
- Data Visualization in R for Actuaries
- Data Visualization Design Concepts in R
- Machine Learning in R for Actuaries



Actuarial Statistics with R: Theory and Case Studies

Guojan Gan, Ph.D., FSA | Emiliano A. Valdez, Ph.D., FSA

A great resource for learning and teaching the material on Exam SRM. See page 24 of this catalog for more information.



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ASM SOA Exam SRM Study Manual

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Abraham Weishaus, Ph.D., FSA, CFA, MAAA



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1300 pages, 9" x 11" 3-hole punch \$255.00 | Digital & Bundle Available
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The ASM Study Manual for Exam SRM covers the full syllabus of the exam and includes practice problems, practice exams and solutions to both problems and exams. In this manual, there are 28 sample questions and 6 practice exams. All have complete solutions. Many exercises are original, but they also include SRM sample questions and questions from old CAS MAS-I and S exams. All of the practice exam questions are original.

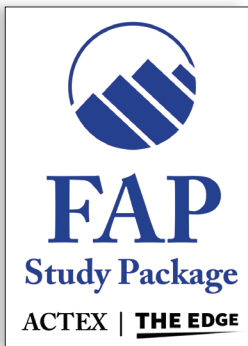
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5th Edition

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Study Manuals

ACTEX SOA PA Study Manual

Ambrose Lo, Ph.D., FSA, CERA | Expected availability: September 2019

ASM SOA PA Study Manual

Michael Bean | Expected availability: September 2019

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Instructor: Brian A. Fannin, ACAS

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Instructor: Brian A. Fannin, ACAS

Expression of data through visual means facilitates an understanding of complex mathematical models for decision makers who may not be accustomed to them. This webinar covers some of the fundamental principles that inform human visual perception and includes guidelines to lead you through the steps for creating visualizations. Learn how to create exhibits which represent data accurately and avoid common mistakes that clutter or obscure your message.

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Instructor: Brian A. Fannin, ACAS

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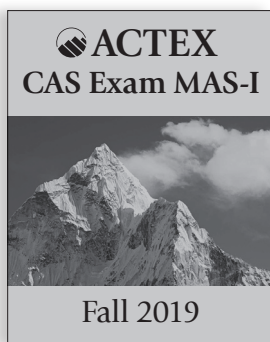
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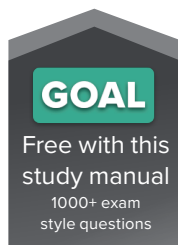
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ACTEX CAS Exam MAS-I Study Manual

Fall 2019 Edition
Ambrose Lo, Ph.D., CERA



StudyPlus+ Bonus Material: GOAL, flashcards, Excel and R training webinars, career guides & more.

1433 pages, 9" x 11" Spiral-Bound \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-852-2

The ACTEX CAS Exam MAS-I Study Manual helps students grasp the material in the exam effectively and efficiently, and pass it with considerable ease. It fosters genuine and thorough understanding of the syllabus topics and discourages rote learning. Each chapter and section of the manual starts by explicitly stating which learning outcomes and knowledge statements of the exam syllabus are to be covered, letting students know they are on track and hitting the right target. The knowledge statements of the syllabus are then demystified by precise and concise expositions synthesized from the syllabus readings and a wealth of illustrative examples, which are original or taken from relevant past exams and/or required textbooks. Intuitions and mnemonics are emphasized, as are highlights of important exam items and common mistakes committed by students.

Additional Study Materials for CAS Exam MAS-I

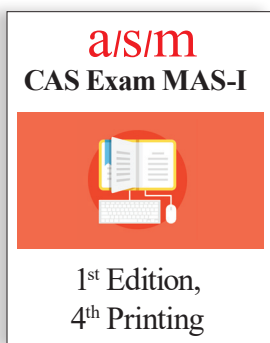
GOAL

GOAL for Exam MAS-I: 1000+ exam style questions

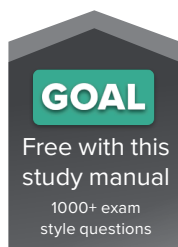
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ASM CAS Exam MAS-I Study Manual

1st Edition, 4th Printing
Abraham Weishaus, Ph.D., FSA, CFA, MAAA



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ISBN: 978-1-63588-788-4

The ASM Study Manual for Exam MAS-I has been written to provide complete coverage of the exam syllabus, covering the topics in 64 lessons. It includes six practice exams with complete solutions and includes 1100 exercises (provided in sections after each lesson), with 600 of them being original. Solutions to the exercises are included. Please note that the manual does not teach R.

Additional Study Materials for CAS Exam MAS-I

GOAL

GOAL for Exam MAS-I: 1000+ exam style questions

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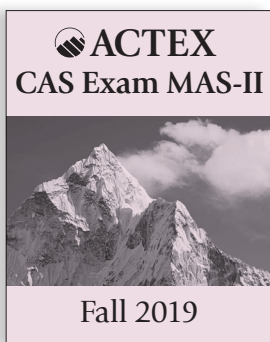
Practice. Quiz. Test. Customize your study experience and test your knowledge. See page 9 for more information.



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ACTEX CAS Exam MAS-II Study Manual

Fall 2019

Jeffrey S. Pai, Ph.D., ASA, ACIA

StudyPlus+ Bonus Material: flashcards, Excel and R training webinars, career guides & more.

9" x 11" Spiral-Bound \$255.00 | Digital & Bundle Available
ISBN: 978-1-63588-847-8

This study manual covers the material in the Casualty Actuarial Society (CAS) Exam Modern Actuarial Statistics - II. The study guide consists of seven parts, which cover the four topics listed in the syllabus:

- Introduction to Credibility
- Linear Mixed Models
- Bayesian Analysis and Markov Chain Monte Carlo
- Statistical Learning

This manual includes textbook references (title and page number information) and example problems throughout. At the end of each section, there are summaries as well as problem sets with solutions. The manual contains over 110 examples and 230 problem set questions with complete solutions. It includes a 42-question Practice Set intended to reflect the Fall 2018 exam. It also includes solutions to both the CAS sample questions and the Fall 2018 exam.



Additional Study Materials for SOA Exam MAS-II



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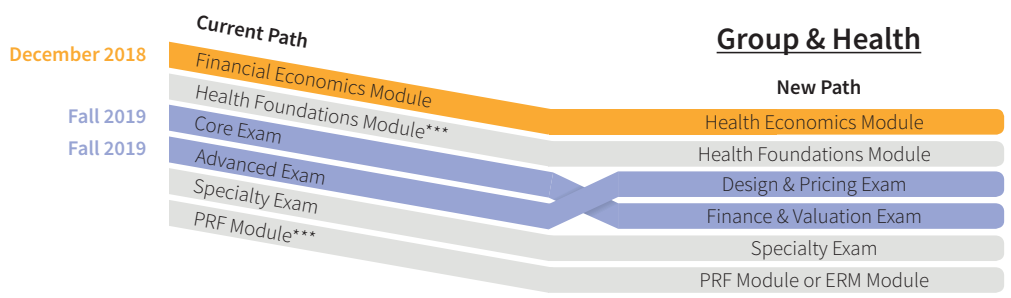
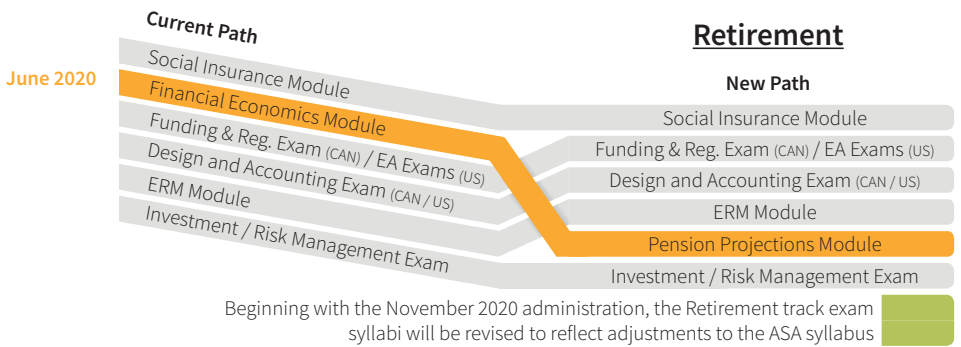
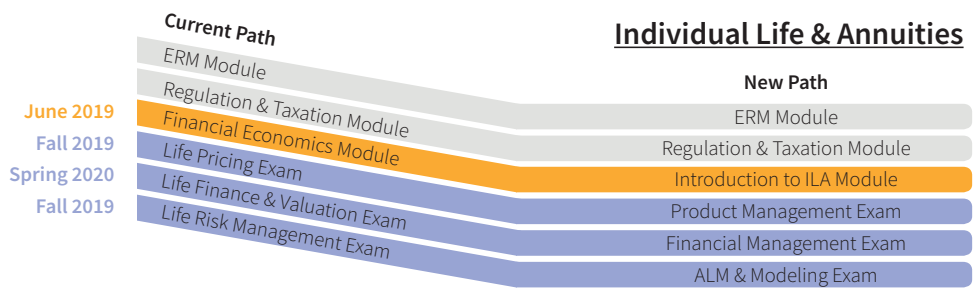
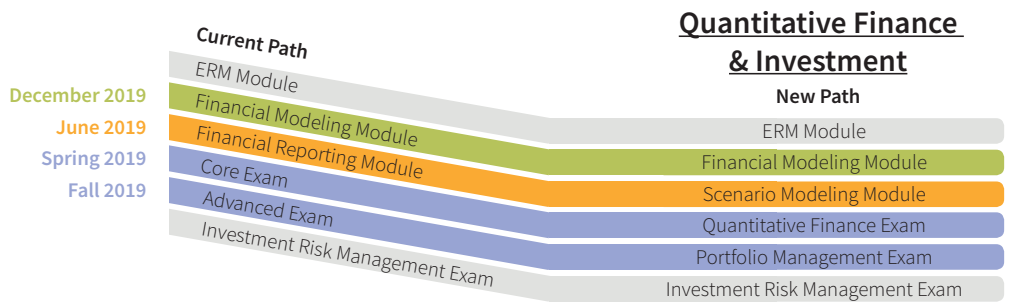
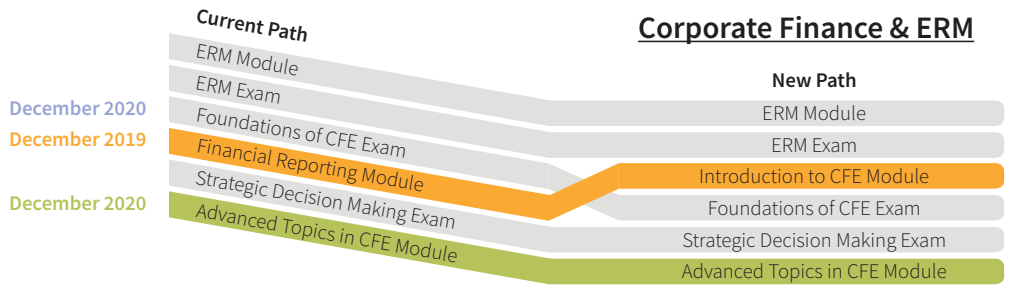


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Restructuring of FSA Track Learning Objectives

The FSA track learning objectives will be restructured to optimize learning and build on the enhanced ASA pathway. These transitions will occur in stages continuing through 2021; timing will vary by track. See SOA website for the latest details.



- Module changes
- Exam changes
- Same name with revisions
- Exam/Module remains the same**

* No changes are currently planned for the General Insurance track.
 ** This does not mean that annual updates to learning objectives and readings will not continue as usual.
 *** May substitute one module with ERM Module if registering prior to 6/20/20

ACTEX Textbooks



Healthcare Risk Adjustment and Predictive Modeling

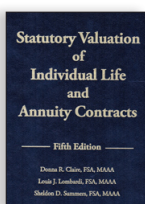
2nd Edition

Ian Duncan, FSA, FIA, FCIA, FCA, CSPA, MAAA

580 pages, 7" x 10" Softcover \$126.00 eBook \$116.00 ISBN: 978-1-63588-413-5

Course of Reading for SOA Fellowship Study in the Group & Health Specialty Track. A comprehensive guide for healthcare actuaries and other professionals interested in healthcare data analytics, risk adjustment and predictive modeling. The book first introduces the topic with discussions of health risk, available data, clinical identification algorithms for diagnostic grouping and the use of grouper models.

"All in all, this is the work of a superbly mathematical yet practical mind. Ian Duncan's work is a brilliant exposition of analytical techniques, coupled with a masterful explanation of how to apply health risk analysis in a series of relevant, real world case studies." - Regina E. Herzlinger, Nancy R. McPherson Professor Business Administration, Harvard Business School



Statutory Valuation of Individual Life and Annuity Contracts

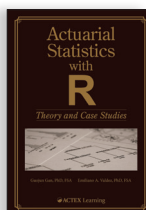
5th Edition, Volume I & Volume II

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Volume II: 441 pages, 8" x 10" HARDCOVER \$122.00 eBook \$112.00 ISBN: 978-1-63588-540-8

This text is listed in the Course of Reading for SOA Fellowship study in the Individual Life & Annuities Track and the Life and Health Qualifications Seminar of the American Academy of Actuaries. This book covers the basic principles of the statutory valuation of individual life insurance and annuity contracts in the United States, including experience studies, model governance, and risk-based capital. It was written both for practicing actuaries and those considering a career in financial reporting, product development or risk management. The fifth edition of this book, previously titled *Valuation of Life Insurance Liabilities*, has been divided into two volumes. Volume 1 focuses primarily on basic principles, the valuation process, model governance, and formula-based reserves. Volume 2 focuses primarily on principle-based reserves, experience studies, and risk-based capital.



Actuarial Statistics with R: Theory and Case Studies

1st Edition

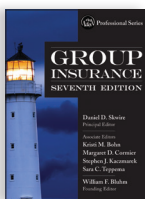
Guojan Gan, Ph.D., FSA | Emiliano A. Valdez, Ph.D., FSA

396 pages, 6" x 9" HARDCOVER \$97.00 eBook \$87.00 ISBN: 978-1-63588-548-4 Solutions Manual: 978-1-56698-551-4

This book covers several topics on data analysis and statistical learning prescribed by the International Actuarial Association (IAA). In particular, it has been designed to cover the learning objectives for the SOA's Statistics for Risk Modeling (SRM) Exam. Many materials from this book also cover parts of the syllabus for the CAS Modern Actuarial Statistics (MAS-I and MAS-II) Exam. It is broadly intended for students and practitioners to learn R programming and its applications in actuarial science, finance, and quantitative risk management.

This book is uniquely prepared as a single source to cover traditional and modern methods of data analytics. It teaches the steps of how to implement and validate models in R at an elementary level and gives students the opportunity to experience the power of applied statistics and R programming first-hand with real world problems. It also provides a theoretical framework, but at the same time, uses the case study method to better connect theory and practice and bridge the gap between academia and industry. A solutions manual is available that includes complete solutions to the practice problems in the text.

A great resource for learning and teaching the material on Exam SRM.



Group Insurance

7th Edition

Daniel D. Skwire, Principal Editor

843 pages, 7" x 10" HARDCOVER \$196.00 eBook \$186.00 ISBN: 978-1-62542-682-6

On the Required Reading List for the SOA Group & Health Core US/Canada Exam, Group & Health Advanced Exam, Group & Health Specialty Exam, and Corporate Finance and ERM Group & Health Extension Exam.

Since its original publication in 1992, Group Insurance has been an essential tool for anyone who wishes to practice in the group benefits field. This text is a comprehensive treatment of all aspects of group insurance in the United States and Canada. It addresses life and health insurance as well as government programs and more specialized forms of insurance. Emphasis is placed on the actuarial aspects of this field including pricing, regulation, underwriting, financial reporting, and modeling.

ACTEX Textbooks *(continued)*



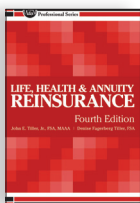
The Art & Science of Life Insurance Distribution

Douglas J. Bennett, FSA | Walter H. Zultowski, Ph.D.

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ILA Exam Reading



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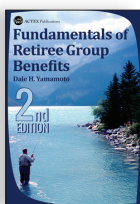
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John E. Tiller, Jr., FSA, MAAA | Denise Fagerberg Tiller, FSA

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ILA Exam Reading



Fundamentals of Retiree Group Benefits

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Dale Yamamoto

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FSA Exam Reading



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Hans K. Leida | William F. Bluhm

585 pages, 6" x 9" HARDCOVER \$168.00 eBook \$158.00 ISBN: 978-1-62542-484-6

A valuable, comprehensive resource for actuaries, managers of payors or providers, or policymakers.

G&H Exam Reading



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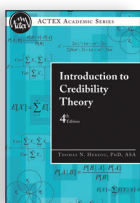
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Ian Duncan, FSA, FIA, FCIA, FCA, CSPA, MAAA

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Essential reading for healthcare professionals interested in driving return on their investment in care management programs.

G&H Exam Reading



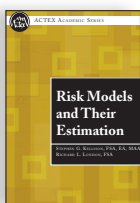
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Thomas N. Herzog, Ph.D., ASA

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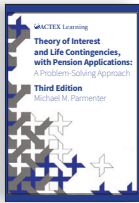
Risk Models & Their Estimation

Stephen G. Kellison, FSA, EA, MAAA | Richard L. London, FSA

560 pages, 6" x 9" Softcover \$75.00 eBook \$65.00 ISBN: 978-1-56698-770-7 Solutions Manual: 978-1-56698-771-4

Easy-to-read introduction of loss models and survival models with multiple practical examples.

ACTEX Textbooks (*continued*)



Theory of Interest and Life Contingencies, with Pension Applications: A Problem Solving Approach

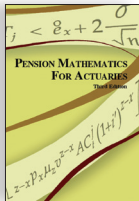
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Michael M. Parmenter, Ph.D., ASA

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EA-1 Exam Reading



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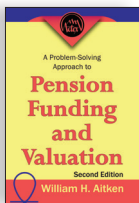
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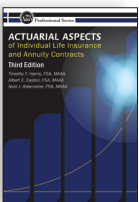
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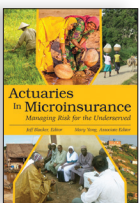
Actuarial Aspects of Individual Life Insurance and Annuity Contracts

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Timothy F. Harris, FSA, MAAA | Albert E. Easton, FSA, MAAA, | Noel J. Abkemeier, FSA, MAAA

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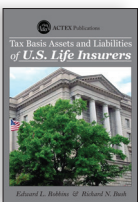


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