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Introduction to Probability Grinstead and Snell's Introduction to Probability **Grinstead and Snell's Introduction to Probability Probability Tales** Introduction to Probability Models *Introduction to Finite Mathematics* Introduction to Probability **Knowing the Odds Introduction to Probability and Statistics Using R Mathematics for Machine Learning** *Mathematical Statistics and Stochastic Processes* **Maeve's Times Bayes Rules!** *Flight and Freedom in the Ancient Near East* Introduction to Light **Religions of the Ancient Near East Reinforcement Learning, second edition Snell's Clinical Anatomy by Regions** *Disciplined Hope* **Applied Statistics** *Markov Random Fields and Their Applications* **Clinical Anatomy by Systems** Finite Markov Chains An Introduction to Financial Option Valuation **Organizational Learning in Asia Life in the Ancient Near East, 3100-332 B.C.E.** Selected works for piano: Waltz in A minor, op. posthumous ; Waltz in B minor, op. 69 no. 2 ; Mazurka in F major, op. 68 no. 3 ; Mazurka in A minor, op. 67 no. 4 ; Mazurka in G# minor, op. 33 no. 1 ; Polonaise in G minor, op. posthumous ; Prelude in E minor, op. 28 no. 4 ; Prelude in B minor, op. 28 no. 6 ; Prelude in A major, op. 28 no. 7 ; Prelude in C minor, op. 28 no. 20 ; Nocturne in C minor, op. posthumous **A Companion to the Ancient Near East** Better Than Best Practice **An Introduction to Optimization** *Acedia and Its Discontents* **Introduction to Information Retrieval Basic Probability Theory Trumpet 3D Computer Graphics Linguistic Ethnography** *Statistical Mechanics of Lattice Systems* **American Generosity Introduction to Probability, Second Edition** Essentials of Stochastic Processes

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American charitable giving veers from the hyperbolically generous to the hyperbolically stingy. On some days, no one has a quarter to spare; in times of disaster, Americans will put their lives on hold to build houses for those displaced by hurricanes. The crucial question of who gives and why they do it lies at the heart of American Generosity. Patricia Snell Herzog and Heather E. Price, sociologists who focus on philanthropy, draw on findings from the groundbreaking Science of Generosity initiative, which combines a nationally representative survey of adult Americans with in-depth interviews and case studies. For most Americans, they find, the important forms of giving are: donating money, volunteering time, and taking political action. Focusing on these three types of activity, the authors go on to examine and analyze multiple dimensions of resources, social status, regional cultural norms, different approaches to giving, social-psychological orientation, and the relational contexts of generosity. Herzog and Price conclude that giving is supported by "circles of generosity," which ripple outward in their reach to targets of giving. The book offers not just analysis, but practical tips for readers who want to increase their own giving, for parents modeling giving to their children, spouses desiring alignment in their giving, and friends and community members seeking to support giving by others. The authors also provide explicit fundraising ideas for nonprofits, foundations, and religious leaders. Thought-provoking and accessibly written, American Generosity lays out a broad yet nuanced explanation of giving that sheds important new light on a topic that touches all of us in one way or another. John Walsh, one of the great masters of the subject, has written a superb book on probability. It covers at a leisurely pace all the important topics that students need to know, and provides excellent examples. I regret his book was not available when I taught such a course myself, a few years ago. --Ioannis Karatzas, Columbia University In this wonderful book, John Walsh presents a panoramic view of Probability Theory, starting from basic facts on mean, median and mode, continuing with an excellent account of Markov chains and martingales, and culminating with Brownian motion. Throughout, the author's personal style is apparent; he manages to combine rigor with an emphasis on the key ideas so the reader never loses sight of the forest by being surrounded by too many trees. As noted in the preface, ``To teach a course with pleasure, one should learn at the same time.'' Indeed, almost all instructors will learn something new from the book (e.g. the potential-theoretic proof of Skorokhod embedding) and at the same time, it is attractive and approachable for students. --Yuval Peres, Microsoft With many examples in each section that enhance the presentation, this book is a welcome addition to the collection of books that serve the needs of advanced undergraduate as well as first year graduate students. The pace is leisurely which makes it more attractive as a text. --Srinivasa Varadhan, Courant Institute, New York This book covers in a leisurely manner all the standard material that one would want in a full year probability course with a slant towards applications in financial analysis at the graduate or senior undergraduate honors level. It contains a fair amount of measure theory and real analysis built in but it introduces sigma-fields, measure theory, and expectation in an especially elementary and intuitive way. A large variety of examples and exercises in each chapter enrich the presentation in the text. This book explores four real-world topics through the lens of probability theory. It can be used to supplement a standard text in probability or statistics. Most elementary textbooks present the basic theory and then illustrate the ideas with some neatly packaged examples. Here the authors assume that the reader has seen, or is learning, the basic theory from another book and concentrate in some depth on the following topics: streaks, the stock market, lotteries, and fingerprints. This extended format allows the authors to present multiple approaches to problems and to pursue promising side discussions in ways that would not be possible in a book constrained to cover a fixed set of topics. To keep the main narrative accessible, the authors have placed the more technical mathematical details in appendices. The appendices can be understood by someone who has taken one or two semesters of calculus. Building upon the previous editions, this textbook is a first course in stochastic processes taken by undergraduate and graduate students (MS and PhD students from math, statistics, economics, computer science, engineering, and finance departments) who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and option pricing. One can only learn a subject by seeing it in action, so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader’s understanding. Drawing from teaching experience and student feedback, there are many new examples and problems with solutions that use TI-83 to eliminate the tedious details of solving linear equations by hand, and the collection of exercises is much improved, with many more biological examples. Originally included in previous editions, material too advanced for this first course in stochastic processes has been eliminated while treatment of other topics useful for applications has been expanded. In addition, the ordering of topics has been improved; for example, the difficult subject of martingales is delayed until its usefulness can be applied in the treatment of mathematical finance. This is an introductory probability textbook, published by the American Mathematical Society. It is designed for an introductory probability course taken by mathematics, the physical and social sciences, engineering, and computer science students. The text can be used in a variety of course lengths, levels, and areas of emphasis. For use in a standard one-term course, in which both discrete and continuous probability is covered, students should have taken as a prerequisite two terms of calculus, including an introduction to multiple integrals. In order to cover Chapter 11, which contains material on Markov chains, some knowledge of matrix theory is necessary. The text can also be used in a discrete probability course. For use in a discrete probability course, students should have taken one term of calculus as a prerequisite. All of the computer programs that are used in the text have been written in each of the languages TrueBASIC, Maple, and Mathematica. Contents: 1) Discrete Probability Distributions. 2) Continuous Probability Densities. 3) Combinatorics. 4) Conditional Probability. 5) Distributions and Densities. 6) Expected Value and Variance. 7) Sums of Random Variables. 8) Law of Large Numbers. 9) Central Limit Theorem. 10) Generating Functions. 11) Markov Chains. 12) Random Walks. The text is best used in conjunction with software and exercises available online at http: //www.dartmouth.edu/ chance/teaching_aids/books_articles/probability_book/book.htm The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject. While the term acedia may be unfamiliar, the vice, usually translated as sloth, is all too common. Sloth is not mere laziness, however, but a disgust with reality, a loathing of our call to be friends with God, and a spiteful hatred of place and life itself. As described by Josef Pieper, the slothful person does not "want to be as God wants him to be, and that ultimately means he does not wish to be what he really, fundamentally is." Sloth is a hellish despair. Our own culture is deeply infected, choosing a destructive freedom rather than the good work for which God created us. Acedia and Its Discontents resists despair, calling us to reconfigure our imaginations and practices in deep love of the life and work given by God. By feasting, keeping sabbath, and working well, we learn to see the world as enchanting, beautiful, and good--just as God sees it. "In the arid wasteland that is academic writing, amid the wider desert that is modern secular thought, R. J. Snell's book on acedia is an oasis of flowers and fruit and fresh water. Professor Snell reminds us that man must never be made subordinate to work, nor even to the empty 'vacations' that are but interruptions in work. Like his great predecessors Josef Pieper, Jacques Maritain, Max Picard, Romano Guardini, and Pope John Paul II, he diagnoses the besetting disease of our time--spiritual torpor--and prescribes as a remedy the joyful celebration of the Sabbath. A stupendous book, filled with the happiness of wonder."--ANTHONY ESOLEN, author of Ten Ways to Destroy the Imagination of Your Child "A whole book about just one vice, 'sloth'? Ah, but this book is different-and devastating. It exposes a deeply hidden and deeply destructive fundamental attitude that pervades our culture, an attitude that comes not just from the flesh (laziness) or from the world (world-weariness, cynicism), but from the Devil: disgust and rebellion toward Being itself, natural as well as supernatural. This is the 'noonday devil' that great saints have labelled 'sloth.' Know your enemy. Read this book!"--PETER KREEFT, author of Practical Theology: Spiritual Direction from St. Thomas Aquinas "Acedia--the sin of sloth, so often confused with laziness--is the most overlooked but widespread illness of the modern age; the emptiness under the mask of the world's frantic activity. R.J. Snell helps us see why this is so and what Christians can do about it with elegant, penetrating insight. This is a terrific book about a badly misunderstood 'deadly sin' and its antidotes."--CHARLES J. CHAPUT, O.F.M. Cap., Archbishop of Philadelphia "Our modern Empire of Desire manufactures endless appetite while simultaneously denying that anything is objectively good, beautiful, or desirable. The result is not great yearning or passion, but acedia or sloth, a pervasive 'noonday demon' which prowls about our culture like a roaring lion, seeking someone to devour. In this learned study, R.J. Snell draws on the vast spiritual and intellectual resources of the Christian tradition to diagnose the deep structure of our contemporary nihilism, exposing this demon and its far-reaching effects with elegance and profundity and thereby providing the weapons necessary to slay it. This is a timely and important book."--MICHAEL HANBY, author of No God, No Science: Theology, Cosmology, Biology R. J. SNELL is professor of philosophy at Eastern University in St. Davids, PA, and executive director of the Agora Institute for Civic Virtue and the Common Good. His recent books include Authentic Cosmopolitanism (with Steve Cone) and The Perspective of Love: Natural Law in a New Mode. He and his wife have four young children. Included CD-ROM contains clinical notes, information on congenital anomalies, radiographic anatomy, and clinical problem-solving exercises, all of which correlate directly with the text. Praise for Bayes Rules!: An Introduction to Applied Bayesian Modeling “A thoughtful and entertaining book, and a great way to get started with Bayesian analysis.” Andrew Gelman, Columbia University “The examples are modern, and even many frequentist intro books ignore important topics (like the great p-value debate) that the authors address. The focus on simulation for understanding is excellent.” Amy Herring, Duke University “I sincerely believe that a generation of students will cite this book as inspiration for their use of – and love for – Bayesian statistics. The narrative holds the reader’s attention and flows naturally – almost conversationally. Put simply, this is perhaps the most engaging introductory statistics textbook I have ever read. [It] is a natural choice for an introductory undergraduate course in applied Bayesian statistics." Yue Jiang, Duke University “This is by far the best book I’ve seen on how to (and how to teach students to) do Bayesian modeling and understand the underlying mathematics and computation. The authors build intuition and scaffold ideas expertly, using interesting real case studies, insightful graphics, and clear explanations. The scope of this book is vast – from basic building blocks to hierarchical modeling, but the authors’ thoughtful organization allows the reader to navigate this journey smoothly. And impressively, by the end of the book, one can run sophisticated Bayesian models and actually understand the whys, whats, and hows.” Paul Roback, St. Olaf College “The authors provide a compelling, integrated, accessible, and non-religious introduction to statistical modeling using a Bayesian approach. They outline a principled approach that features computational implementations and model assessment with ethical implications interwoven throughout. Students and instructors will find the conceptual and computational exercises to be fresh and engaging.” Nicholas Horton, Amherst College An engaging, sophisticated, and fun introduction to the field of Bayesian statistics, Bayes Rules!: An Introduction to Applied Bayesian Modeling brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, the book is an ideal resource for advanced undergraduate statistics students and practitioners with comparable experience. Bayes Rules! empowers readers to weave Bayesian approaches into their everyday practice. Discussions and applications are data driven. A natural progression from fundamental to multivariable, hierarchical models emphasizes a practical and generalizable model building process. The evaluation of these Bayesian models reflects the fact that a data analysis does not exist in a vacuum. Features • Utilizes data-driven examples and exercises. • Emphasizes the iterative model building and evaluation process. • Surveys an interconnected range of multivariable regression and classification models. • Presents fundamental Markov chain Monte Carlo simulation. • Integrates R code, including RStan modeling tools and the bayesrules package. • Encourages readers to tap into their intuition and learn by doing. • Provides a friendly and inclusive introduction to technical Bayesian concepts. • Supports Bayesian applications with foundational Bayesian theory. The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site. Five decades of selected writings from the Irish Times by the beloved and best-selling author, filled with her hallmark humor, candor, and wisdom-a timeless gift to her legion of fans. Maeve Binchy once confessed: "As someone who fell off a chair not long ago trying to hear what they were saying at the next table in a restaurant, I suppose I am obsessively interested in what some might consider the trivia of other people's lives." She was an accidental journalist, yet from the beginning, her writings reflected the warmth, wit, and keen human interest that readers would come to love in her fiction. From the royal wedding to boring airplane companions, Samuel Beckett to Margaret Thatcher, "senior moments" to life as a waitress, Maeve's Times gives us wonderful insight into a changing Ireland as it celebrates the work of one of our best-loved writers in all its diversity-revealing her characteristic directness, laugh-out-loud humor, and unswerving gaze into the true heart of a matter. “Binchy’s wry, self-effacing style reminds one of a Celtic Nora Ephron. . . . [She] throws a spotlight on strong, imperfect women confronting complicated challenges.” —The Christian Science Monitor Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Praised for its clear and consistent organization, dynamic illustrations, and emphasis on clinical applications, Snell’s Clinical Anatomy by Regions pairs expert perspectives with a user-friendly approach to deliver a proven learning and teaching resource on the practical application of anatomy. Ideal for medical, dental, allied health, and nursing programs, this trusted text guides students through the fundamentals of human anatomy, explaining the how and why behind each structure and offering readers the hands-on guidance they need to make sound clinical choices. This edition has been completely reorganized to help students confidently navigate body regions from surface to deep structures, integrating basic anatomy, clinical information, surface and radiographic anatomy, as well as embryology. Colorful new illustrations and concise chapter summaries further reinforce understanding of key concepts and equip students for clinical success. This is a lively textbook providing a solid introduction to financial option valuation for undergraduate students armed with a working knowledge of a first year calculus. Written in a series of short chapters, its self-contained treatment gives equal weight to applied mathematics, stochastics and computational algorithms. No prior background in probability, statistics or numerical analysis is required. Detailed derivations of both the basic asset price model and the Black–Scholes equation are provided along with a presentation of appropriate computational techniques including binomial, finite differences and in particular, variance reduction techniques for the Monte Carlo method. Each chapter comes complete with accompanying stand-alone MATLAB code listing to illustrate a key idea. Furthermore, the author has made heavy use of figures and examples, and has included computations based on real stock market data. The collection demonstrates the ways in which established traditions and scholars have come together under the umbrella of linguistic ethnography to explore important questions about how language and communication are used in a range of settings and contexts, and with what effect. This is a brand new multi-media resource to support new and experienced primary school teachers develop skills of critical reflection in order to improve teaching and learning. An integrated DVD and textbook present a range of innovative case studies comprising video clips of real teachers in the classroom, together with context and narrative, step-by-step guidance through key issues, and commentary and debate from experts and professionals in the field. This book provides an introduction to the elementary theory of logic, sets, probability theory, and linear algebra. It treats a number of practical applications, useful in everyday life, but applicable to biological, behavioral, and social sciences. A self-contained, mathematical introduction to the driving ideas in equilibrium statistical mechanics, studying important

models in detail. GENSTAT is a general purpose statistical computing system with a flexible command language operating on a variety of data structures. It may be used on a number of computer ranges, either interactively for exploratory data analysis, or in batch mode for standard data analysis. The great flexibility of GENSTAT is demonstrated in this handbook by analysing the wide range of examples discussed in Applied Statistics - Principles and Examples (Cox and Snell, 1981). GENSTAT programs are listed for each of the examples. Most of the data sets are small but often it is these seemingly small problems which involve the most tricky statistical and computational procedures. This handbook is self-contained although for a full description of the analysis and interpretation it should be used in parallel with Applied Statistics - Principles and Examples. This introduction to more advanced courses in probability and real analysis emphasizes the probabilistic way of thinking, rather than measure-theoretic concepts. Geared toward advanced undergraduates and graduate students, its sole prerequisite is calculus. Taking statistics as its major field of application, the text opens with a review of basic concepts, advancing to surveys of random variables, the properties of expectation, conditional probability and expectation, and characteristic functions. Subsequent topics include infinite sequences of random variables, Markov chains, and an introduction to statistics. Complete solutions to some of the problems appear at the end of the book. This is a textbook for an undergraduate course in probability and statistics. The approximate prerequisites are two or three semesters of calculus and some linear algebra. Students attending the class include mathematics, engineering, and computer science majors. This 2011 book is a history of religious life in the Ancient Near East from the beginnings of agriculture to Alexander the Great's invasion in the 300s BCE. Daniel C. Snell traces key developments in the history, daily life and religious beliefs of the people of Ancient Mesopotamia, Egypt, Israel and Iran. His research investigates the influence of those ideas on the West, with particular emphasis on how religious ideas from this historical and cultural milieu still influence the way modern cultures and religions view the world. Designed to be accessible to students and readers with no prior knowledge of the period, the book uses fictional vignettes to add interest to its material, which is based on careful study of archaeological remains and preserved texts. The book will provide a thoughtful summary of the Ancient Near East and includes a comprehensive bibliography to guide readers in further study of related topics. The study of Markov random fields has brought exciting new problems to probability theory which are being developed in parallel with basic investigation in other disciplines, most notably physics. The mathematical and physical literature is often quite technical. This book aims at a more gentle introduction to these new areas of research. In this sweeping overview of life in the ancient Near East, Daniel Snell surveys the history of the region from the invention of writing five thousand years ago to Alexander the Great's conquest in 332 B.C.E. The book is the first comprehensive history of the social and economic conditions affecting ordinary people and of the relations between governments and peoples in ancient Egypt, Jordan, Israel, Iran, Iraq, Lebanon, Syria, and Turkey. To set Near East developments in a broader context, the author also provides brief contrasting views of India, China, Greece, and Etruscan Italy. Snell organizes his book chronologically in time spans of about five hundred years and considers broad continuities. Drawing on the latest scholarship in many fields and in many languages, he sets forth a detailed picture of what is known about the demography, social groups, family, women, labor, land and animal management, crafts, trade, money, and government of the ancient Near East. For general readers with an interest in historical events that have influenced the development of Europe and the Middle East, for specialists seeking a broader understanding of early periods of Middle Eastern history, and for anyone with an interest in the Bible, this book offers a fascinating tour of life in ancient Western Asia. A modern, up-to-date introduction to optimization theory andmethods This authoritative book serves as an introductory text tooptimization at the senior undergraduate and beginning graduatelevels. With consistently accessible and elementary treatment ofall topics, An Introduction to Optimization, Second Edition helpsstudents build a solid working knowledge of the field, includingunconstrained optimization, linear programming, and constrainedoptimization. Supplemented with more than one hundred tables and illustrations,an extensive bibliography, and numerous worked examples toillustrate both theory and algorithms, this book alsoprovides: * A review of the required mathematical background material * A mathematical discussion at a level accessible to MBA andbusiness students * A treatment of both linear and nonlinear programming * An introduction to recent developments, including neuralnetworks, genetic algorithms, and interior-point methods * A chapter on the use of descent algorithms for the training offeedforward neural networks * Exercise problems after every chapter, many new to thisedition * MATLAB(r) exercises and examples * Accompanying Instructor's Solutions Manual available onrequest An Introduction to Optimization, Second Edition helps studentsprepare for the advanced topics and technological developments thatlie ahead. It is also a useful book for researchers andprofessionals in mathematics, electrical engineering, economics,statistics, and business. An Instructor's Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment. This textbook, first published in 2003, emphasises the fundamentals and the mathematics underlying computer graphics. The minimal prerequisites, a basic knowledge of calculus and vectors plus some programming experience in C or C++, make the book suitable for self study or for use as an advanced undergraduate or introductory graduate text. The author gives a thorough treatment of transformations and viewing, lighting and shading models, interpolation and averaging, Bézier curves and B-splines, ray tracing and radiosity, and intersection testing with rays. Additional topics, covered in less depth, include texture mapping and colour theory. The book covers some aspects of animation, including quaternions, orientation, and inverse kinematics, and includes source code for a Ray Tracing software package. The book is intended for use along with any OpenGL programming book, but the crucial features of OpenGL are briefly covered to help readers get up to speed. Accompanying software is available freely from the book's web site. Great Players? How do they do it? Sports scientists can find no physical differences between athletes of Olympic standard and moderate athletes. The only difference that can be identified in any way, shape or form, is that the great athletes think about their event all the time, mentally rehearsing every element, time and time again. And so it is with playing.Have I got the Talent? This book offers a comprehensive guide to the techniques used by great brass players? Howard Snell, has developed an approach to playing which makes the most of any players individual talent.So successfully direct are his techniques, absolutely clearly explained in this book, that they are applicable to all brass instruments. In fact, the principles he outlines are common to all musical performance. An intuitive, yet precise introduction to probability theory, stochastic processes, statistical inference, and probabilistic models used in science, engineering, economics, and related fields. This is the currently used textbook for an introductory probability course at the Massachusetts Institute of Technology, attended by a large number of undergraduate and graduate students, and for a leading online class on the subject. The book covers the fundamentals of probability theory (probabilistic models, discrete and continuous random variables, multiple random variables, and limit theorems), which are typically part of a first course on the subject. It also contains a number of more advanced topics, including transforms, sums of random variables, a fairly detailed introduction to Bernoulli, Poisson, and Markov processes, Bayesian inference, and an introduction to classical statistics. The book strikes a balance between simplicity in exposition and sophistication in analytical reasoning. Some of the more mathematically rigorous analysis is explained intuitively in the main text, and then developed in detail (at the level of advanced calculus) in the numerous solved theoretical problems. Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures. Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment. The second edition adds many new examples, exercises, and explanations, to deepen understanding of the ideas, clarify subtle concepts, and respond to feedback from many students and readers. New supplementary online resources have been developed, including animations and interactive visualizations, and the book has been updated to dovetail with these resources. Supplementary material is available on Joseph Blitzstein’s website www. stat110.net. The supplements include: Solutions to selected exercises Additional practice problems Handouts including review material and sample exams Animations and interactive visualizations created in connection with the edX online version of Stat 110. Links to lecture videos available on ITunes U and YouTube There is also a complete instructor's solutions manual available to instructors who require the book for a course. Organizational Learning in Asia: Issues and Challenges addresses important and pressing questions on organizational learning in Asia in both domestic and foreign firms—those that have been forgotten in the mainstream literature or that remain unasked and unanswered. Three sets of questions are especially salient. First, how can firms operating in, or from, Asia detect, respect, recognize, and honor different cultural stances on suggestion-giving, knowledge sharing, and standardization while also challenging accepted wisdom, avoiding risks and mistakes, and voicing disagreement? Second, how can such firms facilitate local experimentation and innovation by providing a common knowledge platform in a non-totalitarian manner? Finally, how can such forums promote ‘reverse’ knowledge transfer from subsidiary to headquarters and across subsidiaries in different nations by avoiding ethnocentricity, cultivating local talent, and building a group of 'communities of practice' across cultural and status boundaries? Addresses important and pressing questions about organizational learning in Asia for both domestic and foreign firms Explores how such firms can facilitate local experimentation and innovation Promotes ‘reverse’ knowledge transfer from subsidiary, to headquarters, and across subsidiaries in different nations In a time of political turmoil, how should we pray? What is the role of prayer in resisting politics that are based on hatred and division? This book claims prayer as a way to choose hope over fear. Beginning soon after the Inauguration in 2017, Shannon Craigo-Snell offered brief, daily prayers lifting up people and groups who were actively working for the common good. These prayers, collected here, provide a historical record of the rhetorical and political outrages of the first year of the Trump Administration, as well as the actions of those who resisted. They remember the small victories, averted disasters, and ongoing struggles of people of good will. They affirm not only the practical value of political involvement, but also the spiritual value of such engagement in solidarity with those most vulnerable to destructive policies. In addition to these daily prayers, this book offers an introduction and invitation to prayer. Intercessory prayer, in particular, can bridge divides between religious traditions and cultural differences, creating a space in which diverse communities can hope together for a better world. Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poison processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics A Companion to the Ancient Near East offers students and general readers a comprehensive overview of Near Eastern civilization from the Bronze Age to the conquests of Alexander the Great. Covers the civilizations of the Sumerians, Hittites, Babylonians, Assyrians, Israelites and Persians Places particular emphasis on social and cultural history Covers the legacy of the Ancient Near East in the medieval and modern worlds Provides a useful bibliographical guide to this field of study Designed for a nonmathematical undergraduate optics course addressed to art majors, this four-part treatment discusses the nature and manipulation of light, vision, and color. Questions at the end of each chapter help test comprehension of material, which is almost completely presented in a nonmathematical manner. 170 black-and-white illustrations. 1983 edition. Generally, books on mathematical statistics are restricted tothe case of independent identically distributed random variables.In this book however, both this case AND the case of dependentvariables, i.e. statistics for discrete and continuous timeprocesses, are studied. This second case is very important fortoday’s practitioners. Mathematical Statistics and Stochastic Processes is based ondecision theory and asymptotic statistics and contains up-to-dateinformation on the relevant topics of theory of probability,estimation, confidence intervals, non-parametric statistics androbustness, second-order processes in discrete and continuous timeand diffusion processes, statistics for discrete and continuoustime processes, statistical prediction, and complements inprobability. This book is aimed at students studying courses on probability withan emphasis on measure theory and for all practitioners who applyand use statistics and probability on a daily basis. This book shows that in the Ancient Near East the idea of freedom is older than in Greece. Snell studies archival texts on runaways, edicts, legal collections, treaties, and literature, as well as Biblical practice.