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5CDJU3 - MASON MOSHE

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 book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recur-

rences; generating functions.

This book, along with General Book 3G covers in depth the entire contents of the General Course. It is also an invaluable resource which can easily be used to cover the outcomes of the new CfE National 4 course being introduced to Scottish schools. It is a pupil friendly book and is one of our biggest selling resources. We found that pupils who struggled with the complexities of other General resources on the market, and who found the sudden change of pace and the level of difficulty too great to cope with, felt a lot more comfortable with our 3G and 4G textbooks. In Book 3G, we truncated the work in some chapters, for example: Pythagoras - Hypotenuse only Circle work - Circumference only Trigonometry - Tangent only (Tan tables at back of book), in order to allow pupils to have access to these topics and feel confident with the work without burdening them with all the "tricky bits"! Though the missing topics from these chapters were covered in the Extension Materials in 3G, they are re-produced in this book with changed numbers.

"Satisfying, gratifying,

touching, weighty—this authentic piece of work has got soul."—The New York Times Book Review As twelve-year-old Marlee starts middle school in 1958 Little Rock, it feels like her whole world is falling apart. Until she meets Liz, the new girl at school. Liz is everything Marlee wishes she could be: she's brave, brash and always knows the right thing to say. But when Liz leaves school without even a good-bye, the rumor is that Liz was caught passing for white. Marlee decides that doesn't matter. She just wants her friend back. And to stay friends, Marlee and Liz are even willing to take on segregation and the dangers their friendship could bring to both their families. Winner of the New-York Historical Society Children's History Book Prize A New York Times Book Review Editor's Choice

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 print book version includes a code that provides free access to an eBook version. 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.

A precise, relevant, comprehensive approach to mathematical concepts...

A plane crashes on a desert island and the only survivors, a group of schoolboys, assemble on the beach and wait to be rescued. By day they inhabit a land of bright fantastic birds and dark blue seas, but at night their dreams are haunted by the image of a terrifying beast. As the boys' delicate sense of order fades,

so their childish dreams are transformed into something more primitive, and their behaviour starts to take on a murderous, savage significance. First published in 1954, *Lord of the Flies* is one of the most celebrated and widely read of modern classics. Now fully revised and updated, this educational edition includes chapter summaries, comprehension questions, discussion points, classroom activities, a biographical profile of Golding, historical context relevant to the novel and an essay on *Lord of the Flies* by William Golding entitled 'Fable'. Aimed at Key Stage 3 and 4 students, it also includes a section on literary theory for advanced or A-level students. The educational edition encourages original and independent thinking while guiding the student through the text - ideal for use in the classroom and at home.

An authorised reissue of the long out of print classic textbook, *Advanced Calculus* by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the

authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention *Differential and Integral Calculus* by R Courant, *Calculus* by T Apostol, *Calculus* by M Spivak, and *Pure Mathematics* by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in

the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

- Packed with hundreds of practice questions to develop higher level mathematical skills - Covers the updated SQA Higher specification, for first assessment in 2019 - Starts with a Chapter Zero that revises all necessary algebraic and numeric skills from National 5 - Every chapter ends with Exam Practice Exercises that mirror the question types in the SQA exams - Every third chapter ends with a cumulative Home Exercise for revision and recall of the topics covered across all chapters up to that point - Includes Specimen Exam Papers 1 and 2 at the end of the book - Answers for all questions are in the back of the book; answers for the Home Exercises and Specimen Exam Papers are available online

"Now in its fifth edition, this leading text and clinical guide offers best-practice recommendations for assessing a comprehensive array of child and adolescent mental health problems and health risks. Leading authorities provide an overview of each disorder and describe

methods and procedures that take into account the developmental, biological, familial, and cultural contexts of children's problems and that can inform sound clinical decision making. The fifth edition has been thoroughly updated with the growing knowledge base on child and family disorders and evidence-based assessment"--

Planning algorithms are impacting technical disciplines and industries around the world, including robotics, computer-aided design, manufacturing, computer graphics, aerospace applications, drug design, and protein folding. This coherent and comprehensive book unifies material from several sources, including robotics, control theory, artificial intelligence, and algorithms. The treatment is centered on robot motion planning, but integrates material on planning in discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The last part of the book delves into planning under differential constraints that arise when au-

tomating the motions of virtually any mechanical system. This text and reference is intended for students, engineers, and researchers in robotics, artificial intelligence, and control theory as well as computer graphics, algorithms, and computational biology.

Pain is the most common symptom bringing a patient to a physician's attention. Physicians training in pain medicine may originate from different disciplines and approach the field with varying backgrounds and experience. This book captures the theory and evidence-based practice of behavioral, psychotherapeutic and psychopharmacological treatments in modern pain medicine. The book's contributors span the fields of psychiatry, psychology, anesthesia, neurology, physical medicine and rehabilitation, and nursing. Thus the structure and content of the book convey the interdisciplinary approach that is the current standard for the successful practice of pain management. The book is designed to be used as a text for training fellowships in pain medicine, as well as graduate courses in psychology, nursing, and other health profes-

sions.

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products. We live in a highly connected world with multiple self-interested agents interacting and myriad opportunities for conflict and cooperation. The goal of game theory is to understand these opportunities. This book presents a rigorous introduction to the

mathematics of game theory without losing sight of the joy of the subject. This is done by focusing on theoretical highlights (e.g., at least six Nobel Prize winning results are developed from scratch) and by presenting exciting connections of game theory to other fields such as computer science (algorithmic game theory), economics (auctions and matching markets), social choice (voting theory), biology (signaling and evolutionary stability), and learning theory. Both classical topics, such as zero-sum games, and modern topics, such as sponsored search auctions, are covered. Along the way, beautiful mathematical tools used in game theory are introduced, including convexity, fixed-point theorems, and probabilistic arguments. The book is appropriate for a first course in game theory at either the undergraduate or graduate level, whether in mathematics, economics, computer science, or statistics. The importance of game-theoretic thinking transcends the academic setting—for every action we take, we must consider not only its direct effects, but also how it influences the incentives of others.

Packed with reader-friend-

ly illustrations, *ESSENTIALS OF BUSINESS LAW AND THE LEGAL ENVIRONMENT*, 12e uses a nontechnical presentation to help your students understand the dynamics of today's legal environment for business. Covering a broad variety of key subjects and emphasizing ethical decision making, the text presents all business law topics required for success on the CPA exam. Cases are carefully summarized and integrated in order to present both recent legal issues and landmark court decisions while minimizing legal jargon. Students learn to effectively apply legal reasoning to cases and legal issues using the Issue, Rule, Application and Conclusion (IRAC) method. In addition to new Going Global features that highlight the international aspects of legal issues, the 12th Edition also includes more than 30 recent cases, updated coverage of limited liability companies and suretyship, amendments to UCC Articles, SEC rules on social media, recent U.S. Supreme Court decisions, and much more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"A collection of ten short stories that all take place in the same day about kids walking home from school"--

This book is a comprehensive resource for pupils studying National 4 Physics which adheres closely to the SQA syllabus. Each section of the book matches a mandatory unit of the syllabus, and each chapter corresponds to a key area. In addition to the core text, the book contains a variety of special features:

- Activities to consolidate learning
- Worked examples to demonstrate key processes
- In-text questions to test knowledge and understanding
- End-of-chapter questions for homework and assessment
- Summaries of key facts and concepts
- Special section on the Added Value Unit
- Answer section at the back of the book

Algebraic topology is a basic part of modern mathematics, and some knowledge of this area is indispensable for any advanced work relating to geometry, including topology itself, differential geometry, algebraic geometry, and Lie groups. This book provides a detailed treatment of algebraic topology both for teachers

of the subject and for advanced graduate students in mathematics either specializing in this area or continuing on to other fields. J. Peter May's approach reflects the enormous internal developments within algebraic topology over the past several decades, most of which are largely unknown to mathematicians in other fields. But he also retains the classical presentations of various topics where appropriate. Most chapters end with problems that further explore and refine the concepts presented. The final four chapters provide sketches of substantial areas of algebraic topology that are normally omitted from introductory texts, and the book concludes with a list of suggested readings for those interested in delving further into the field.

The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian

games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of ex-

amples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students Computer software is an essential tool for many statistical modelling and data analysis techniques, aiding in the implementation of large data sets in order to obtain useful results. R is one of the most powerful and flexible statistical software packages available, and enables the user to apply a wide variety of statistical methods ranging from simple regression to generalized linear modelling. Statistics: An Introduction using R is a clear and concise introductory textbook to statistical analysis using this powerful and free software, and follows on from the success of the author's previous best-selling title Statistical Computing. * Features step-by-step instructions that assume no mathematics, statistics or programming background, helping the non-statistician to fully understand the methodology. * Uses a series of realistic examples, developing

step-wise from the simplest cases, with the emphasis on checking the assumptions (e.g. constancy of variance and normality of errors) and the adequacy of the model chosen to fit the data. * The emphasis throughout is on estimation of effect sizes and confidence intervals, rather than on hypothesis testing. * Covers the full range of statistical techniques likely to be needed to analyse the data from research projects, including elementary material like t-tests and chi-squared tests, intermediate methods like regression and analysis of variance, and more advanced techniques like generalized linear modelling. * Includes numerous worked examples and exercises within each chapter. * Accompanied by a website featuring worked examples, data sets, exercises and solutions:

<http://www.imperial.ac.uk/bio/research/crawley/statistics> Statistics: An Introduction using R is the first text to offer such a concise introduction to a broad array of statistical methods, at a level that is elementary enough to appeal to a broad range of disciplines. It is primarily aimed at undergraduate students in medicine, engineering, economics and bi-

ology - but will also appeal to postgraduates who have not previously covered this area, or wish to switch to using R.

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, pre-processing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the

trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data In the past decade, few subjects at the intersection of medicine and sports have generated as much public interest as sports-related concussions - especially among youth. Despite growing awareness of sports-related concussions and campaigns to educate athletes, coaches, physicians, and parents of young athletes about concussion recognition and management, confusion and controversy persist in many areas. Currently, diagno-

sis is based primarily on the symptoms reported by the individual rather than on objective diagnostic markers, and there is little empirical evidence for the optimal degree and duration of physical rest needed to promote recovery or the best timing and approach for returning to full physical activity. *Sports-Related Concussions in Youth: Improving the Science, Changing the Culture* reviews the science of sports-related concussions in youth from elementary school through young adulthood, as well as in military personnel and their dependents. This report recommends actions that can be taken by a range of audiences - including research funding agencies, legislatures, state and school superintendents and athletic directors, military organizations, and equipment manufacturers, as well as youth who participate in sports and their parents - to improve what is known about concussions and to reduce their occurrence. *Sports-Related Concussions in Youth* finds that while some studies provide useful information, much remains unknown about the extent of concussions in youth; how to diagnose, manage, and prevent concussions; and

the short- and long-term consequences of concussions as well as repetitive head impacts that do not result in concussion symptoms. The culture of sports negatively influences athletes' self-reporting of concussion symptoms and their adherence to return-to-play guidance. Athletes, their teammates, and, in some cases, coaches and parents may not fully appreciate the health threats posed by concussions. Similarly, military recruits are immersed in a culture that includes devotion to duty and service before self, and the critical nature of concussions may often go unheeded. According to *Sports-Related Concussions in Youth*, if the youth sports community can adopt the belief that concussions are serious injuries and emphasize care for players with concussions until they are fully recovered, then the culture in which these athletes perform and compete will become much safer. Improving understanding of the extent, causes, effects, and prevention of sports-related concussions is vitally important for the health and well-being of youth athletes. The findings and recommendations in this report set a direction for re-

search to reach this goal. A new series of bespoke, full-coverage resources developed for the 2015 GCSE Mathematics qualifications. Written for the AQA GCSE Mathematics Higher tier specification for first teaching from 2015, our Homework Book is an ideal companion to the AQA Higher tier Student Book and can be used as a standalone resource. With exercises that correspond to each section of the Student Book, it offers a wealth of additional questions for practice and consolidation. Our Homework Books contain a breadth and depth of questions covering a variety of skills, including problem-solving and mathematical reasoning, as well as extensive drill questions. Answers to all questions are available free on the Cambridge University Press UK Schools website.

This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and

tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

Developed by the National Strength and Conditioning Association (NSCA) and now in its fourth edition, *Essentials of Strength Training and Conditioning* is the essential text for strength and conditioning professionals and students. This comprehensive resource, created by 30 expert contributors in the field, explains the key theories, concepts, and scientific principles of strength training and conditioning as well as their direct application to athletic competition and performance. The scope and content of *Essentials of Strength Training and Conditioning, Fourth Edition With HKPropel Access*, have been updated to convey the knowledge, skills,

and abilities required of a strength and conditioning professional and to address the latest information found on the Certified Strength and Conditioning Specialist (CSCS) exam. The evidence-based approach and unbeatable accuracy of the text make it the primary resource to rely on for CSCS exam preparation. The text is organized to lead readers from theory to program design and practical strategies for administration and management of strength and conditioning facilities. The fourth edition contains the most current research and applications and several new features: Online videos featuring 21 resistance training exercises demonstrate proper exercise form for classroom and practical use. Updated research—specifically in the areas of high-intensity interval training, overtraining, agility and change of direction, nutrition for health and performance, and periodization—helps readers better understand these popular trends in the industry. A new chapter with instructions and photos presents techniques for exercises using alternative modes and nontraditional implements. Ten additional tests, including those for

maximum strength, power, and aerobic capacity, along with new flexibility exercises, resistance training exercises, plyometric exercises, and speed and agility drills help professionals design programs that reflect current guidelines. Key points, chapter objectives, and learning aids including key terms and self-study questions provide a structure to help students and professionals conceptualize the information and reinforce fundamental facts. Application sidebars provide practical application of scientific concepts that can be used by strength and conditioning specialists in real-world settings, making the information immediately relatable and usable. Online learning tools delivered through HKPropel provide students with 11 downloadable lab activities for practice and retention of information. Further, both students and professionals will benefit from the online videos of 21 foundational exercises that provide visual instruction and reinforce proper technique. *Essentials of Strength Training and Conditioning, Fourth Edition*, provides the most comprehensive information on organization and administration of facilities, testing and evaluation, exercise

techniques, training adaptations, program design, and structure and function of body systems. Its scope, precision, and dependability make it the essential preparation text for the CSCS exam as well as a definitive reference for strength and conditioning professionals to consult in their everyday practice. Note: A code for accessing HKPropel is not included with this ebook but may be purchased separately.

This new edition of *Understanding Morphology* has been fully revised in line with the latest research. It now includes 'big picture' questions to highlight central themes in morphology, as well as research exercises for each chapter. *Understanding Morphology* presents an introduction to the study of word structure that starts at the very beginning. Assuming no knowledge of the field of morphology on the part of the reader, the book presents a broad range of morphological phenomena from a wide variety of languages. Starting with the core areas of inflection and derivation, the book presents the interfaces between morphology and syntax and between morphology and phonology. The synchronic study of word structure

is covered, as are the phenomena of diachronic change, such as analogy and grammaticalization. Theories are presented clearly in accessible language with the main purpose of shedding light on the data, rather than as a goal in themselves. The authors consistently draw on the best research available, thus utilizing and discussing both functionalist and generative theoretical approaches. Each chapter includes a summary, suggestions for further reading, and exercises. As such this is the ideal book for both beginning students of linguistics, or anyone in a related discipline looking for a first introduction to morphology.

A brief, flexible, and innovative alternative to the standard rhetorics, *Involved* offers a fresh approach to the traditional activities of undergraduate writing and teaches students that a successful education depends on the student's active involvement in reading and writing carefully, seeking meaning in assigned work, and sharing ideas with teachers and others. Physical inactivity is a key determinant of health across the lifespan. A lack of activity increases the risk of heart disease, colon and breast cancer,

diabetes mellitus, hypertension, osteoporosis, anxiety and depression and others diseases. Emerging literature has suggested that in terms of mortality, the global population health burden of physical inactivity approaches that of cigarette smoking. The prevalence and substantial disease risk associated with physical inactivity has been described as a pandemic. The prevalence, health impact, and evidence of changeability all have resulted in calls for action to increase physical activity across the lifespan. In response to the need to find ways to make physical activity a health priority for youth, the Institute of Medicine's Committee on Physical Activity and Physical Education in the School Environment was formed. Its purpose was to review the current status of physical activity and physical education in the school environment, including before, during, and after school, and examine the influences of physical activity and physical education on the short and long term physical, cognitive and brain, and psychosocial health and development of children and adolescents. Educating the Student Body makes recommendations

about approaches for strengthening and improving programs and policies for physical activity and physical education in the school environment. This report lays out a set of guiding principles to guide its work on these tasks. These included: recognizing the benefits of instilling life-long physical activity habits in children; the value of using systems thinking in improving physical activity and physical education in the school environment; the recognition of current disparities in opportunities and the need to achieve equity in physical activity and physical education; the importance of considering all types of school environments; the need to take into consideration the diversity of students as recommendations are developed. This report will be of interest to local and national policymakers, school officials, teachers, and the education community, researchers, professional organizations, and parents interested in physical activity, physical education, and health for school-aged children and adolescents.

The present volume examines the relationship between second language practice and what is

known about the process of second language acquisition, summarising the current state of second language acquisition theory, drawing general conclusions about its application to methods and materials and describing what characteristics effective materials should have. The author concludes that a solution to language teaching lies not so much in expensive equipment, exotic new methods, or sophisticated language analysis, but rather in the full utilisation of the most important resources - native speakers of the language - in real communication.

As a result of his visits to classrooms across the nation, Brown has compiled an engaging, thought-provoking collection of classroom vignettes which show the ways in which national, state, and local school politics translate into changed classroom practices. "Captures the breadth, depth, and urgency of education reform".--- Bill Clinton.

The one thing Dominic Chambers hates most in the world is homework. With Halloween only one week away, Dominic's fourth-grade teacher assigns him an essay. Dominic does everything he can to avoid completing the assignment. He just

can't think of anything to write about. Ideas don't just pop into his head the way they do with geniuses. But then a series of strange events leads Dominic to investigate the legend of Otis Brown. Otis Brown used to fish in the pond behind Dominic's house every day. Tragically, Otis and his wife both drowned in the pond. But their bodies were never found, and many believe that the ghost of Otis Brown still haunts the pond, especially around Halloween. To complete his assignment, Dominic must survive detention, a power outage, a bizarre dream, and an encounter with the ghost of Otis Brown himself. In *Dominic Chambers And The Ode to Otis Brown*, dreams and reality collide and Dominic discovers a wild imagination he never knew he had.

Turn your students into scientists who use their knowledge and creativity to solve real-world problems. Each lesson features a step-by-step guide; a summary of recent research; and handouts that are classroom-ready. Learn about the three levels of writing, from a Level 1 quickwrite to a formal, multi-part, Level 3 research paper. Each writing assignment—

narrative, persuasive, and informative—includes a detailed rubric that makes grading easy. Students collaborate to contain an outbreak of avian flu, lead a group of people trying to survive under harsh conditions, battle drought in a densely-populated city in the American southwest, research the behavior of animals in the local region, and calculate their own speed, velocity, and momentum. Engaging and demanding, Project-Based Writing in Science helps students to understand and improve the world.

Macroeconomic policy is one of the most important policy domains, and the tools of macroeconomics are among the most valuable for policy makers. Yet there has been, up to now, a wide gulf between the level at which macroeconomics is taught at the undergraduate level and the level at which it is practiced. At the same time, doctoral-level textbooks are usually not targeted at a policy audience, making advanced macroeconomics less accessible to current and aspiring practitioners. This book, born out of the Masters course the authors taught for many years at the Harvard Kennedy School, fills this gap. It in-

troduces the tools of dynamic optimization in the context of economic growth, and then applies them to a wide range of policy questions - ranging from pensions, consumption, investment and finance, to the most recent developments in fiscal and monetary policy. It does so with the requisite rigor, but also with a light touch, and an unyielding focus on their application to policy-making, as befits the authors' own practical experience. *Advanced Macroeconomics: An Easy Guide* is bound to become a great resource for graduate and advanced undergraduate students, and practitioners alike.

The leading text for students and practicing therapists who want to learn the fundamentals of cognitive behavior therapy (CBT), this book is eminently practical and authoritative. In a highly accessible, step-by-step style, master clinician Judith S. Beck demonstrates how to engage patients, develop a sound case conceptualization, plan treatment, and structure sessions effectively. Core cognitive, behavioral, and experiential techniques are explicated and strategies are presented for troubleshooting difficulties

and preventing relapse. An extended case example and many vignettes and transcripts illustrate CBT in action. Reproducible clinical tools can be downloaded and printed in a convenient 8 1/2" x 11" size. See also Dr. Beck's *Cognitive Therapy for Challenging Problems: What to Do When the Basics Don't Work*, which addresses ways to solve frequently encountered problems with patients who are not making progress. *New to This Edition**Reflects over 15 years of research advances and the author's ongoing experience as a clinician, teacher, and supervisor.**Chapters on the evaluation session and behavioral activation.**Increased emphasis on the therapeutic relationship, building on patients' strengths, and homework.**Now even more practical: features reproducible and a sample case write-up.*

This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added to this third

edition.

Focusing on the formal development of mathematics, this book shows readers how to read, understand, write, and construct mathematical proofs. Uses elementary number theory and congruence arithmetic throughout. Focus-

es on writing in mathematics. Reviews prior mathematical work with "Preview Activities" at the start of each section. Includes "Activities" throughout that relate to the material contained in each section. Focuses on

Congruence Notation and Elementary Number Theory throughout. For professionals in the sciences or engineering who need to brush up on their advanced mathematics skills. Mathematical Reasoning: Writing and Proof, 2/E Theodore Sundstrom