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KEY=4ED - ARIAS WILLIAMSON

PRACTICAL RESEARCH

PLANNING AND DESIGN

For undergraduate or graduate courses that include planning, conducting, and evaluating research. A do-it-yourself, understand-it-yourself manual designed to help students understand the fundamental structure of research and the methodical process that leads to valid, reliable results. Written in uncommonly engaging and elegant prose, this text guides the reader, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of a completed report, with practical suggestions based on a solid theoretical framework and sound pedagogy. Suitable as the core text in any introductory research course or even for self-instruction, this text will show students two things: 1) that quality research demands planning and design; and, 2) how their own research projects can be executed effectively and professionally.

ORIENTALISM

WESTERN CONCEPTIONS OF THE ORIENT

Penguin UK 'A stimulating, elegant yet pugnacious essay'—Observer In this highly acclaimed seminal work, Edward Said surveys the history and nature of Western attitudes towards the East, considering Orientalism as a powerful European ideological creation—a way for writers, philosophers and colonial administrators to deal with the 'otherness' of Eastern culture, customs and beliefs. He traces this view through the writings of Homer, Nerval and Flaubert, Disraeli and Kipling, whose imaginative depictions have greatly contributed to the West's romantic and exotic picture of the Orient. In the Afterword, Said examines the effect of continuing Western imperialism.

ANGER MANAGEMENT WORKBOOK FOR KIDS AND TEENS

Growth Central LLC Too much anger can be costly, both physically and emotionally. Most kids and teens can use their anger in appropriate ways in some situations, and yet be ineffective in others. The Anger Management Workbook for Kids and Teens reduces levels of anger, especially in provocative situations. Kids and Teens will learn effective coping behaviors to stop escalation and to resolve conflicts. Graduated homework assignments allow participants to apply their newly acquired skills. The Anger Management Workbook for Kids and Teens employs the three major anger control interventions by using model presentations, rehearsal, positive feedback and promoting. The Workbook is designed especially for adolescents and pre-adolescents.

MATHEMATICAL RECREATIONS AND ESSAYS

Createspace Independent Publishing Platform Mathematical Recreations and Essays W. W. Rouse Ball For nearly a century, this sparkling classic has provided stimulating hours of entertainment to the mathematically inclined. The problems posed here often involve fundamental mathematical methods and notions, but their chief appeal is their capacity to tease and delight. In these pages you will find scores of "recreations" to amuse you and to challenge your problem-solving faculties—often to the limit. Now in its 13th edition, Mathematical Recreations and Essays has been thoroughly revised and updated over the decades since its first publication in 1892. This latest edition retains all the remarkable character of the original, but the terminology and treatment of some problems have been updated and new material has been added. Among the challenges in store for you: Arithmetical and geometrical recreations; Polyhedra; Chess-board recreations; Magic squares; Map-coloring problems; Unicursal problems; Cryptography and cryptanalysis; Calculating prodigies; ... and more. You'll even find problems which mathematical ingenuity can solve but the computer cannot. No knowledge of calculus or analytic geometry is necessary to enjoy these games and puzzles. With basic mathematical skills and the desire to meet a challenge you can put yourself to the test and win. "A must to add to your mathematics library."—The Mathematics Teacher We are delighted to publish this classic book as part of our extensive Classic Library collection. Many of the books in our collection have been out of print for decades, and therefore have not been accessible to the general public. The aim of our publishing program is to facilitate rapid access to this vast reservoir of literature, and our view is that this is a significant literary work, which deserves to be brought back into print after many decades. The contents of the vast majority of titles in the Classic Library have been scanned from the original works. To ensure a high quality product, each title has been meticulously hand curated by our staff. Our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work. We hope that you will enjoy this wonderful classic work, and that for you it becomes an enriching experience.

KING OF THE KHYBER RIFLES

A ROMANCE OF ADVENTURE

The Floating Press If you're craving a classic adventure novel from times gone by, King of the Khyber Rifles will definitely do the trick. Set in India around the time of the outbreak of World War I, the tale outlines the tensions between the restless and defiant natives of India and the British forces, which have been weakened by the demands of fighting against the Germans. Can secret agent Athelstan King quell the simmering conflict before it's too late?

BARRONS ACT STUDY GUIDE.

Simon and Schuster

SIGNS AND SYMBOLS

THEIR DESIGN AND MEANING

Discusses the elements of a sign, and looks at pictograms, alphabets, calligraphy, monograms, text type, numerical signs, symbols, and trademarks

TWENTIETH CENTURY STANDARD PUZZLE BOOK

THREE PARTS IN ONE VOLUME

Good Press "Twentieth Century Standard Puzzle Book" by Various. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

HISTORY OF SCIENCE

Ardent Media This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

DISCOVERING GEOMETRY

AN INVESTIGATIVE APPROACH. TEACHING AND WORKSHEET MASTERS

PHYSICS FOR SCIENTISTS AND ENGINEERS, VOLUME 2

Cengage Learning Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

STATISTICAL RETHINKING

A BAYESIAN COURSE WITH EXAMPLES IN R AND STAN

CRC Press Statistical Rethinking: A Bayesian Course with Examples in R and Stan builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work. The text presents generalized linear multilevel models from a Bayesian perspective, relying on a simple logical interpretation of Bayesian probability and maximum entropy. It covers from the basics of regression to multilevel models. The author also discusses measurement error, missing data, and Gaussian process models for spatial and network autocorrelation. By using complete R code examples throughout, this book provides a practical foundation for performing statistical inference. Designed for both PhD students and seasoned professionals in the natural and social sciences, it prepares them for more advanced or specialized statistical modeling. Web Resource The book is accompanied by an R package (rethinking) that is available on the author's website and GitHub. The two core functions (map and map2stan) of this package allow a variety of statistical models to be constructed from standard model formulas.

AN INTRODUCTION TO LANGUAGE AND LINGUISTICS

Cambridge University Press This accessible textbook is the only introduction to linguistics in which each chapter is written by an expert who teaches courses on that topic, ensuring balanced and uniformly excellent coverage of the full range of modern linguistics. Assuming no prior knowledge the text offers a clear introduction to the traditional topics of structural linguistics (theories of sound, form, meaning, and language change), and in addition provides full coverage of contextual linguistics, including separate chapters on discourse, dialect variation, language and culture, and the politics of language. There are also up-to-date separate chapters on language and the brain, computational linguistics, writing, child language acquisition, and second-language learning. The breadth of the textbook makes it ideal for introductory courses on language and linguistics offered by departments of English, sociology, anthropology, and communications, as well as by linguistics departments.

INTRODUCTION TO PROBABILITY AND STATISTICS USING R

Lulu.com

METHODOLOGY AND AFRICAN PREHISTORY

UNESCO V.1. Methodology and African prehistory -- v.2. Ancient civilizations of Africa -- v.3. Africa from the seventh to the eleventh century -- v.4. Africa from the twelfth to the sixteenth century -- v.5. Africa from the sixteenth to the eighteenth century -- v.6. The nineteenth century until the 1880s -- v.7. Africa under foreign domination 1880-1935 -- v.8. Africa since 1935.

TEACHING AND LEARNING HIGH SCHOOL MATHEMATICS

John Wiley & Sons A perfect resource for high school mathematics teachers, this book helps them develop or refine their own teaching philosophy. They'll learn how to create a supportive classroom environment in which their students think together, take intellectual risks, and debate ideas. They'll gain a better understanding about the importance of cooperative learning strategies through immersion. And they'll engage in logic and reasoning. Puzzles and activities are presented to bring the material to life as well. All of this will help high school mathematics bring the excitement of the subject into the classroom.

AIRPORT SYSTEMS

PLANNING DESIGN, AND MANAGEMENT

"This is a premier text by leading technical professionals, known worldwide for their expertise in the planning, design, and management of airports"--Provided by publisher.

THE PLANIVERSE

COMPUTER CONTACT WITH A TWO-DIMENSIONAL WORLD

Springer Science & Business Media A classic book about life in a two-dimensional universe, written by a well-known author. Now brought back into print in this revised and updated edition, the book is written within the great tradition of Abbott's Flatland, and Hinton's famous Sphereland. Accessible, imaginative, and clever, it will appeal to a wide array of readers, from serious mathematicians and computer scientists, to science fiction fans.

ECOHOUSE

A DESIGN GUIDE

Routledge As the need to slow climate change becomes increasingly urgent, growing numbers of people are looking to dramatically reduce the carbon footprint of their own buildings by using more ecologically sound techniques. Ecohouse provides design information about the latest low-impact materials and technologies, showcasing the newest and best 'green' solutions with international case studies demonstrating sustainable design in action around the world. This edition has been expanded to include advice on powering ecohouses using renewable energy - including wind, micro hydro and heat pumps - and an introduction to low-impact building materials such as lime, earth and hemp. New case studies from across the globe have been added to inspire readers with real-life examples of how to make an ecohouse work.

CURIOUS ABOUT NATURE

A PASSION FOR FIELDWORK

Cambridge University Press Proclaims the enjoyment of teaching, studying and learning outdoors via the inspirational stories of some remarkable people.

ENGLISH VOCABULARY ELEMENTS

Oxford University Press This unique text draws on the tools of modern linguistics to help the student acquire an effective understanding of learned, specialized, and scientific vocabulary. English Vocabulary Elements (EVE) helps develop familiarity with over 350 Latin and Greek word elements in English, and shows how these roots are the building blocks within thousands of different words. Along the way the authors introduce and illustrate many of the fundamental concepts of linguistics. Offering a thorough approach to the expansion of vocabulary, EVE is an invaluable resource that provides students a deeper understanding of the language. This book will be useful to upper level high school students, undergraduates in English, Linguistics, and Classics departments, ESL students, and anyone interested in building vocabulary skills. This edition is refined and thoroughly updated. It includes updated cultural references, and the authors have revised and improved the pedagogy based on classroom experience. In particular they account for variations in pronunciation among students; clarify when historical details are important or peripheral; and improve the many examples and exercises that form the core of the book.

PHONETIC ANALYSIS OF SPEECH CORPORA

John Wiley & Sons An accessible introduction to the phonetic analysis of speech corpora, this workbook-style text provides an extensive set of exercises to help readers develop the necessary skills to design and carry out experiments in speech research. Offers the first step-by-step treatment of advanced techniques in experimental phonetics using speech corpora and downloadable software, including the R programming language Introduces methods of analyzing phonetically-labelled speech corpora, with the goal of testing hypotheses that often arise in experimental phonetics and laboratory phonology Incorporates an extensive set of exercises and answers to reinforce the techniques introduced Accessibly written with easy-to-follow computer commands and spectrograms of speech Companion website at www.wiley.com/go/harrington, which includes illustrations, video tutorials, appendices, and downloadable speech corpora for testing purposes. Discusses techniques in digital speech processing and in structuring and querying annotations from speech corpora Includes substantial coverage of analysis, including measuring gestural synchronization using EMA, the acoustics of vowels, consonant overlap using EPG, spectral analysis of fricatives and obstruents, and the probabilistic classification of acoustic speech data

EINSTEIN VS. BERGSON

AN ENDURING QUARREL ON TIME

Walter de Gruyter GmbH & Co KG This book brings together papers from a conference that took place in the city of L'Aquila, 4-6 April 2019, to commemorate the 10th anniversary of the earthquake that struck on 6 April 2009. Philosophers and scientists from diverse fields of research debated the problem that, on 6 April 1922, divided Einstein and Bergson: the nature of time. For Einstein, scientific time is the only time that matters and the only time we can rely on. Bergson, however, believes that scientific time is derived by abstraction, even in the sense of extraction, from a more fundamental time. The plurality of times envisaged by the theory of Relativity does not, for him, contradict the philosophical intuition of the existence of a single time. But how do things stand today? What can we say about the relationship between the quantitative and qualitative dimensions of time in the light of contemporary science? What do quantum mechanics, biology and neuroscience teach us about the nature of time? The essays collected here take up the question that pitted Einstein against Bergson, science against philosophy, in an attempt to reverse the outcome of their monologue in two voices, with a multilogue in several voices.

THE RATIONAL MECHANICS OF FLEXIBLE OR ELASTIC BODIES 1638 - 1788

INTRODUCTION TO VOL. X AND XI

Springer Science & Business Media 1 We search the concepts and methods) of the theory of deformable solids from GALILEO to LAGRANGE. Neither of them achieved much in our subject, but their works serve as 2 termini: With GALILEO's Discorsi in 1638 our matter begins) (for this is the history of mathematical theory), while LAGRANGE's Mécanique Analytique closed the mechanics of 1) There are three major historical works that bear on our subject. The first is A history of the theory of elasticity and of the strength of materials by I. TOBHUNTER, "edited and completed" by K. PEARSON, Vol. I, Cambridge, 1886. Unfortunately it is necessary to give warning that this book fails to meet the standard set by the histories TOBHUNTER lived to finish. Much of what TOBHUNTER left seems to be rather the rough notes for a book than the book itself; the parts due to PEARSON are fortunately distinguished by square brackets. Researches prior to 1800 are disposed of in the first chapter, 79 pages long and almost entirely the work of PEARSON; as frontispiece to a work whose title restricts it to theory he saw fit to supply a possibly original pen drawing entitled "Rupture. Sur faces of Cast-Iron".

PHYSICS AND CHEMISTRY OF INTERFACES

John Wiley & Sons Physics and Chemistry of Interfaces This general yet comprehensive introduction to the field focuses on the essential concepts rather than specific details, on intuitive understanding rather than learning facts. The text reflects the many facets of this discipline by linking fundamentals with applications. The theory behind important concepts is backed by scientific-engineering aspects, as well as by a wide range of high-end applications. Examples of applications from biotechnology to microelectronics are used to illustrate the basic concepts. New to this third edition are topics as second harmonic generation spectroscopy, surface diffusion, atomic layer deposition, superlubricity, and bioadhesion. At the same time, the discussions of liquid surfaces, the Marangoni effect, electric double layers, measurement of surface forces, wetting, and adsorption have been updated. The number and variety of exercises are increased and the references are updated. From the Contents: Introduction Liquid Surfaces Thermodynamics of Interfaces Charged Interfaces and the Electric Double Layer Surface Forces Contact Angle Phenomena and Wetting Solid Surfaces Adsorption Surface Modification Friction, Lubrication, and Wear Surfactants, Micelles, Emulsions, and Foams Thin Films on Surfaces of Liquids Solutions to Exercises Analysis of Diffraction Patterns

THE SONIFICATION HANDBOOK

Logos Verlag Berlin This book is a comprehensive introductory presentation of the key research areas in the interdisciplinary fields of sonification and auditory display. Chapters are written by leading experts, providing a wide-ranging coverage of the central issues, and can be read from start to finish, or dipped into as required. Sonification conveys information by using non-speech sounds. To listen to data as sound and noise can be a surprising new experience with diverse applications ranging from novel interfaces for visually impaired people to data analysis problems in many scientific fields. This book gives a solid introduction to the field of auditory display, the techniques for sonification, suitable technologies for developing sonification algorithms, and the most promising application areas. The book is accompanied by an online repository of sound examples.

ECODEFENSE

A FIELD GUIDE TO MONKEYWRENCHING

THE FLEXIBLE PHENOTYPE

A BODY-CENTRED INTEGRATION OF ECOLOGY, PHYSIOLOGY, AND BEHAVIOUR

Oxford University Press This book attempts a true synthesis of animal physiology, behaviour, and ecology by developing an empirical argument that describes the intimate connections between animal phenotype and environment, using the results of a long-term research programme on migrant shorebirds and their invertebrate prey.

ONLINE STATISTICS EDUCATION

AN INTERACTIVE MULTIMEDIA COURSE OF STUDY (PART I: CHAPTERS 1-10)

Online Statistics: An Interactive Multimedia Course of Study is a resource for learning and teaching introductory statistics. It contains material presented in textbook format and as video presentations. This resource features interactive demonstrations and simulations, case studies, and an analysis lab. This print edition of the public domain textbook gives the student an opportunity to own a physical copy to help enhance their educational experience. This part I features the book Front Matter, Chapters 1-10, and the full Glossary. Chapters Include: I. Introduction, II. Graphing Distributions, III. Summarizing Distributions, IV. Describing Bivariate Data, V. Probability, VI. Research Design, VII. Normal Distributions, VIII. Advanced Graphs, IX. Sampling Distributions, and X. Estimation. Online Statistics Education: A Multimedia Course of Study (<http://onlinestatbook.com/>). Project Leader: David M. Lane, Rice University.

AN INQUIRY INTO THE ORIGINAL OF OUR IDEAS OF BEAUTY AND VIRTUE

IN TWO TREATISES

ENGINEERING ELECTROMAGNETICS

Springer This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps - a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter

ASTRONOMY

Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

SOCIAL MEDIA IN SOUTH INDIA

UCL Press One of the first ethnographic studies to explore use of social media in the everyday lives of people in Tamil Nadu, Social Media in South India provides an understanding of this subject in a region experiencing rapid transformation. The influx of IT companies over the past decade into what was once a space dominated by agriculture has resulted in a complex juxtaposition between an evolving knowledge economy and the traditions of rural life. While certain class tensions have emerged in response to this juxtaposition, a study of social media in the region suggests that similarities have also transpired, observed most clearly in the blurring of boundaries between work and life for both the old residents and the new. Venkatraman explores the impact of social media at home, work and school, and analyses the influence of class, caste, age and gender on how, and which, social media platforms are used in different contexts. These factors, he argues, have a significant effect on social media use, suggesting that social media in South India, while seeming to induce societal change, actually remains bound by local traditions and practices.

COMPLETE A+ GUIDE TO IT HARDWARE AND SOFTWARE

AA COMPTIA A+ CORE 1 (220-1001) & COMPTIA A+ CORE 2 (220-1002) TEXTBOOK

Pearson IT Certification Master IT hardware and software installation, configuration, repair, maintenance, and troubleshooting and fully prepare for the CompTIA® A+ Core 1 (220-1001) and Core 2 (220-1002) exams. This is your all-in-one, real-world, full-color guide to connecting, managing, and troubleshooting modern devices and systems in authentic IT scenarios. Its thorough instruction built on the CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam objectives includes coverage of Windows 10, Mac, Linux, Chrome OS, Android, iOS, cloud-based software, mobile and IoT devices, security, Active Directory, scripting, and other modern techniques and best practices for IT management. Award-winning instructor Cheryl Schmidt also addresses widely-used legacy technologies—making this the definitive resource for mastering the tools and technologies you’ll encounter in real IT and business environments. Schmidt’s emphasis on both technical and soft skills will help you rapidly become a well-qualified, professional, and customer-friendly technician. **LEARN MORE QUICKLY AND THOROUGHLY WITH THESE STUDY AND REVIEW TOOLS:** Learning Objectives and chapter opening lists of CompTIA A+ Certification Exam Objectives make sure you know exactly what you’ll be learning, and you cover all you need to know Hundreds of photos, figures, and tables present information in a visually compelling full-color design Practical Tech Tips provide real-world IT tech support knowledge Soft Skills best-practice advice and team-building activities in every chapter cover key tools and skills for becoming a professional, customer-friendly technician Review Questions—including true/false, multiple choice, matching, fill-in-the-blank, and open-ended questions—carefully assess your knowledge of each learning objective Thought-provoking activities help students apply and reinforce chapter content, and allow instructors to “flip” the classroom if they choose Key Terms identify exam words and phrases associated with each topic Detailed Glossary clearly defines every key term Dozens of Critical Thinking Activities take you beyond the facts to deeper understanding Chapter Summaries recap key concepts for more efficient studying Certification Exam Tips provide insight into the certification exam and preparation process

MATHEMATICS ACROSS CULTURES

THE HISTORY OF NON-WESTERN MATHEMATICS

Springer Science & Business Media Mathematics Across Cultures: A History of Non-Western Mathematics consists of essays dealing with the mathematical knowledge and beliefs of cultures outside the United States and Europe. In addition to articles surveying Islamic, Chinese, Native American, Aboriginal Australian, Inca, Egyptian, and African mathematics, among others, the book includes essays on Rationality, Logic and Mathematics, and the transfer of knowledge from East to West. The essays address the connections between science and culture and relate the mathematical practices to the cultures which produced them. Each essay is well illustrated and contains an extensive bibliography. Because the geographic range is global, the book fills a gap in both the history of science and in cultural studies. It should find a place on the bookshelves of advanced undergraduate students, graduate students, and scholars, as well as in libraries serving those groups.

THE NATURAL HISTORY OF SANTO

Museum National D'Histoire Santo, the largest island in the South Pacific nation of Vanuatu, is an extraordinary geographical and cultural microcosm, combining reefs, caves, mountains, and satellite isles—with human history that dates back 3,000 years. Collecting contributions from more than one hundred authors, The Natural History of Santo is the result of a 2006 Santo expedition, which brought together scientists, volunteers, and students from twenty-five countries. This lavishly illustrated book pays homage to the biodiversity of this “planet-island” and bridges the gaps between scientific knowledge, conservation, and education.

THE IDEAL PROBLEM SOLVER

A GUIDE FOR IMPROVING THINKING, LEARNING, AND CREATIVITY

W H Freeman & Company Provocative, challenging, and fun, The Ideal Problem Solver offers a sound, methodical approach for resolving problems based on the IDEAL (Identify, Define, Explore, Act, Look) model. The authors suggest new strategies for enhancing creativity, improving memory, criticizing ideas and generating alternatives, and communicating more effectively with a wider range of people. Using the results of laboratory research previously available only in a piece-meal fashion or in scientific journals, Bransford and Stein discuss such issues as Teaming new information, overcoming blocks to creativity, and viewing problems from a variety of perspectives.

THE WORKS OF GEORGE BERKELEY ...

INCLUDING HIS POSTHUMOUS WORKS; WITH PREFACES, ANNOTATIONS, APPENDICES, AND AN ACCOUNT OF HIS LIFE

TWENTIETH CENTURY STANDARD PUZZLE BOOK

PART 1

I. Magic squares, picture puzzles, enigmas, charades, riddles, conundrums, nuts to crack, solutions -- II. Optical illusions, freaks of figures, chess cameos, science at play, curious calculations, word and letter puzzles, solutions -- III. Word puzzles, missing words, letter puzzles, anagrams, picture puzzles, palindromes, solutions.

ENGINEERING ECONOMY

McGraw-Hill College This student-friendly text on the current economic issues particular to engineering covers the topics needed to analyze engineering alternatives. Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased with an expanded spreadsheet analysis component, twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This text provides students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating and making sound economic decisions. Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margin throughout the text. While the chapters are progressive, over three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.