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[Henderson's Intellectual and Practical Lightning Calculator](#) McGraw Hill Professional

This book compiles the experience of the largest project in knowledge-based systems and the law yet undertaken. It provides an in-depth introduction to representation of law in computer programs, as well as more advanced discussion and description of large knowledge-based systems building, legal representation, cooperative work, and interface design in the context of the project. - Describes the world's largest KBS and law project - Contains an authoritative survey of approaches to legal knowledge representation - Outlines several prototype systems - Discusses the integration of KBS and law issues with HCI and social implications

[Henderson's United States Intellectual and Practical Lightning Calculator](#) eBook Partnership

Chemistry can be a daunting subject for the uninitiated, and all too often, introductory textbooks do little to make students feel at ease with the complex subject matter. Basic Chemistry Concepts and Exercises brings the wisdom of John Kenkel's more than 35 years of teaching experience to communicate the fundamentals of chemistry in a practical, down-to-earth manner. Using conversational language and logically assembled graphics, the book concisely introduces each topic without overwhelming students with unnecessary detail. Example problems and end-of-chapter questions emphasize repetition of concepts, preparing students to become adept at the basics before they progress to an advanced general chemistry course. Enhanced with visualization techniques such as the first chapter's mythical microscope, the book clarifies challenging, abstract ideas and stimulates curiosity into what can otherwise be an overwhelming topic. Topics discussed in this reader-friendly text include: Properties and structure of matter Atoms, molecules, and compounds The Periodic Table Atomic weight, formula weights, and moles Gases and solutions Chemical equilibrium Acids, bases, and pH Organic chemicals The appendix contains answers to the homework exercises so students can check their work and receive instant feedback as to whether they have adequately grasped the concepts before moving on to the next section. Designed to help students embrace chemistry not with trepidation, but with confidence, this solid preparatory text forms a firm foundation for more advanced chemistry training.

[Orton's Lightning Calculator and Accountant's Assistant](#) SAGE

This book eases you into the foundational aspects of Python 3.x with an extensive range of code samples that illustrate its diverse features. Start with Python tools and installations, and progressively learn intricacies like strings, loops, conditional logic, and much more. The appendices on NumPy and Pandas provide insights into efficient numerical operations, making it a holistic resource for novice programmers. Companion files with code samples are available for downloading from the publisher.

[Models of Thought](#) Springer Nature

Focusing on fundamental scientific and engineering issues, this book communicates the principles of building and using knowledge systems from the conceptual standpoint as well as the practical. Previous treatments of knowledge systems have focused on applications within a particular field, or on symbol-level representations, such as the use of frame and rule representations. Introduction to Knowledge Systems presents fundamentals of symbol-level representations including representations for time, space, uncertainty, and vagueness. It also compares the knowledge-level organizations for three common knowledge-intensive tasks: classification, configuration, and diagnosis. The art of building knowledge systems incorporates computer science theory, programming practice, and psychology. The scope of this book is appropriately broad, ranging from the design of hierarchical search algorithms to techniques for acquiring the task-specific knowledge needed for successful applications. Each chapter proceeds from concepts to applications, and closes with a brief tour of current research topics and open issues. Readers will come away with a solid foundation that will

enable them to create real-world knowledge systems using whatever tools and programming languages are most current and appropriate.

[Optimization Models in Electricity Markets](#) Nelson Thornes

Precalculus: A Functional Approach to Graphing and Problem Solving prepares students for the concepts and applications they will encounter in future calculus courses. In far too many texts, process is stressed over insight and understanding, and students move on to calculus ill equipped to think conceptually about its essential ideas. This text provides sound development of the important mathematical underpinnings of calculus, stimulating problems and exercises, and a well-developed, engaging pedagogy. Students will leave with a clear understanding of what lies ahead in their future calculus courses. Instructors will find that Smith's straightforward, student-friendly presentation provides exactly what they have been looking for in a text!

[5 Steps to a 5 AP Calculus AB & BC, 2012-2013 Edition](#) McGraw Hill Professional

Get up-to-speed with the fundamentals of how electricity markets are structured and operated with this comprehensive textbook, presenting coverage of key topics in electricity market design, including power system and power market operations, transmission, unit commitment, demand response, and risk management. It includes over 140 practical examples, inspired by real-industry applications, connecting key theoretical concepts to practical scenarios in electricity market design, and features over 100 coding-based examples and exercises, with selected solutions for readers. It further demonstrates how mathematical programming models are implemented in an industry setting. Requiring no experience in power systems or energy economics, this is the ideal introduction to electricity markets for senior undergraduate and graduate students in electrical engineering, economics, and operations research, and a robust introduction to the field for professionals in utilities, energy policy, and energy regulation. Accompanied online by datasets, AMPL code, supporting videos, and full solutions and lecture slides for instructors.

[RCRA Regulations and Keyword Index, 2017 Edition](#) CRC Press

Kaplan's HiSET Exam Prep provides comprehensive review, online resources, and exam-like practice to help you pass the test. Our book is designed for self-study so you can prep at your own pace, on your own schedule. The new fourth edition includes an online study plan that will help you track your progress and learn more about the HiSET. Essential Review More than 1,000 practice questions in the book and online with answers and explanations In-book diagnostic pretest to help you identify your strengths and weaknesses so you can set up a personalized study plan Essential skills you'll need to pass each of the 5 subtests: Reasoning through Language Arts-Reading, Language Arts-Writing, Mathematics, Science, and Social Studies A full-length practice test for each subject area Expert Guidance Online center with information about getting started and a system for marking chapters complete Expert test-taking strategies to help you face the exam with confidence Kaplan's experts make sure our practice questions and study materials are true to the test. We invented test prep-Kaplan (www.kaptest.com) has been helping students for 80 years. Our proven strategies have helped legions of students achieve their dreams. The HiSET is an alternative to the GED test and the TASC test. In some states, it is the only acceptable test for earning a high school equivalency diploma. In other states, it is just 1 test option out of 2 or 3. To find out whether your state will be using the HiSET for high school equivalency tests, visit hiset.ets.org or contact your state's department of education. The previous edition

of this book was titled HiSET Exam, Third Edition.

[Laboratory Experiments with Direct-currents](#) EduGorilla Publication This new Teacher Resource Pack allows you to cater for lower ability pupils within a mainstream class, as directed in the Inclusion Policy. Written specifically for lower ability pupils, this resource provides consolidation of Level A with full coverage of Level B learning outcomes.

[Calculus](#) Cambridge University Press

The performance of an company depends both on its technological expertise and its managerial and organizational effectiveness. Production management is an important part of the process for manufacturing firms. The organization of production relies in general on the implementation of a certain number of basic functions, among which the scheduling function plays an essential role. This title presents recently developed methods for resolving scheduling issues. The basic concepts and the methods of production scheduling are introduced and advanced techniques are discussed, providing readers with a comprehensive and accessible guide to employing this process.

[HiSET Exam Prep](#) Yale University Press

Nobel Laureate Herbert A. Simon has in the past quarter century been in the front line of the information-processing revolution; in fact, to a remarkable extent his and his colleagues' contributions have written the history of that revolution in cognitive psychology. Research in this burgeoning new branch of knowledge seeks to describe with precision the workings of the human mind in terms of a small number of basic mechanisms organized into strategies. Newly developed computer languages express theories of mental processes, so that computers can then simulate the predicted human behavior. This book brings together papers dating from the start of Simon's career to the present. Its focus is on modeling the chief components of human cognition and on testing these models experimentally. After considering basic structural elements of the human information-processing system (especially search, selective attention, and storage in memory), Simon builds from these components a system capable of solving problems, inducing rules and concepts, perceiving, and understanding. These essays describe a relatively austere, simple, and unified processing system capable of highly complex and various tasks. They provide strong evidence for an explanation of human thinking in terms of basic information processes.

[Foundations of Psychological Testing](#) A G Printing & Publishing

The remarkable system of Vedic mathematics was created after careful study of ancient Sanskrit texts early last century. The Vedic system with its direct, easy and flexible approach forms a complete system of mental mathematics (though the methods can also be written down) and brings out the naturally coherent and unified structure of mathematics. Many of the features and techniques of this unique system are truly amazing in their efficiency and originality. Being a mental system, Vedic Mathematics encourages creativity and innovation. Mental mathematics increases mental agility, improves memory, the ability to hold ideas in the mind and promotes confidence, as well as being of great practical use. This course consists of three textbooks an Answer Book and a Teacher's Guide. The course is aimed at 11-14 year old pupils though some of it is very suitable for children from 8 years. Vedic Mathematics is being taught in many schools world-wide

with great success: many top mathematics prizes have been won by students of this system. Contents Foreword, Introduction, Vedic Mathematics Sutras, Sub-Sutras, Recurring Decimals, Formulae, Squares, Cubes and Roots, Straight Division, Equations, Polygons, Similar Figures, The Musical Scale, nets and Networks, The Vedic Square, Probability, Pie, Volumes of Prisms and Pyramids, Parabolic Curves, Sequences, Loci, Motion, Auxiliary Fractions, Surveys, Codes Vectors, Simultaneous Equations, Divisibility and Simple Osculators, Square Roots, Quadratic Equations, Pythagoras' Theorem, Triples, Proof, Coordinate Geometry, The Platonic Solids, Historical Notes.

Artificial Intelligence & Games S. Chand Publishing

Differential protection is a fast and selective method of protection against short-circuits. It is applied in many variants for electrical machines, trans-formers, busbars, and electric lines. Initially this book covers the theory and fundamentals of analog and numerical differential protection. Current transformers are treated in detail including transient behaviour, impact on protection performance, and practical dimensioning. An extended chapter is dedicated to signal transmission for line protection, in particular, modern digital communication and GPS timing. The emphasis is then placed on the different variants of differential protection and their practical application illustrated by concrete examples. This is completed by recommendations for commissioning, testing and maintenance. Finally the design and management of modern differential protection is explained by means of the latest Siemens SIPROTEC relay series. As a textbook and standard work in one, this book covers all topics, which have to be paid attention to for planning, designing, configuring and applying differential protection systems. The book is aimed at students and engineers who wish to familiarise themselves with the subject of differential protection, as well as the experienced user entering the area of numerical differential protection. Furthermore, it serves as a reference guide for solving application problems. For the new edition all contents have been revised, extended and updated to the latest state-of-the-art of protective relaying.

Electric Machines: Extracts, Examples, E Vikas Publishing House

At the time of writing Tim Prichard has nearly 30 years' experience as a science teacher in several schools both in the UK and abroad, covering the entire age and ability range, including A level Physics and Chemistry. The author has found students revise and consolidate their knowledge best if they have access to a wide variety of worked examples to study from. Physics by Example is based upon this concept with each topic having a short introduction followed by around ten example questions. Each question has a full "e;step by step";, easy to follow solution, including hints and tips to help the student understand the methodology for each question. At the end of each section there is a self testing exercise with answers to help the students consolidate their knowledge. Prichard Guides work best if they are used in conjunction with the student's own notes to support their own learning. These guides provide a huge resource of model questions and answers which have been tried and tested in classrooms across the UK and abroad, as they have been the basis of the author's lessons for nearly three decades, have been very successful and are still being used in lessons today.

Python for Absolute Beginners Kaplan Test Prep

A handy supplement and quick reference guide, this book covers the major gamut of Electric Machines including DC Machines, Transformers, Induction Machines and Synchronous Machines.

Topics in Artificial Intelligence McGraw-Hill Higher Education

RCRA Regulations & Keyword Index, 2017 Edition contains an indexed compilation of the federal hazardous waste regulations, which implement the Resource Conservation and Recovery Act (RCRA). It is designed to make the federal hazardous waste regulations more usable. RCRA Regulations & Keyword Index, 2017 Edition is composed of individual chapters that cover all of the major "Parts" of the RCRA regulations. Each of these chapters begins with a brief overview of the regulations that are discussed in the chapter and a summary of the changes made during the previous year.

Numerical Differential Protection John Wiley & Sons

As has been pointed out by several industrial game AI developers the lack of behavioral modularity across games and in-game tasks is detrimental for the development of high quality AI [605, 171]. An increasingly popular method for ad-hoc behavior authoring that eliminates the modularity limitations of FSMs and BTs is the utility-based AI approach which can be used for the design of control and decision making systems in games [425, 557]. Following this approach, instances in the game get assigned a particular utility function that gives a value for the importance of the particular instance [10, 169]. For instance, the importance of an enemy being present at a particular distance or the importance of an agent's health being low in this particular context. Given the set of all utilities available to an agent and all the options it has, utility-based AI decides which is the most important option it should consider at this moment [426]. The utility-based approach is grounded in the utility theory of economics and is based on utility function design. The approach is similar to the design of membership functions in a fuzzy set. A utility can measure anything from observable objective data (e.g., enemy health) to subjective notions such as emotions, mood and threat. The various utilities about possible actions or decisions can be aggregated into linear or non-linear formulas and guide the agent to take decisions based on the aggregated utility. The utility values can be checked every n frames of the game. So while FSMs and BTs would examine one decision at a time, utility-based AI architectures

Intelligent Algorithms in Software Engineering Springer Nature

This book has been specifically updated for Key Stage 4 GCSE and is written by the bestselling mathematics revision guide authors whose previous GCSE revision guide sold in excess of 3/4 million copies. It meets the needs of the estimated 500,000-plus examination candidates who sit the GCSE examination in 1993/4 and onwards. Revise Mathematics is designed and tested to bring your customers success in GCSE Key Stage 4: - The Mathematics revision guide that teachers will recommend - How to achieve the best level 'Intermediate' or 'Higher' examinations - Full revision text with fully worked and explained answers - New-specimen questions organized in Attainment Targets with checked answers to monitor progress - Plenty of exam practice with real past papers - Good study and revision tips and help with examination strategy - From the publishers you can trust - Macmillan Revise Mathematics covers each of the new GCSE attainment targets in turn: Number, Algebra, Shape and Size, and Handling Data. Model questions with fully checked solutions provided by the Examination Boards for 1994, are included along with extensive exam-type revision questions. Revise Mathematics has been prepared for use by candidates working for 'intermediate' or 'higher' grade results in the examination.

How to Become a Human Calculator?, 3rd Edition John Wiley & Sons

Presents a level-specific resource with materials at each of Levels C, D and E, written to provide comprehensive and in-depth coverage of each Level's attainment targets. The materials, written specifically for Scotland, are fully referenced to the 5-14 Guidelines and contain information you need to teach Maths in your classroom.

Problem Solving ... a Basic Mathematics Goal Wolters Kluwer

Get ready for your AP exam with this straightforward and easy-to-follow study guide, updated for all the latest exam changes! 5 Steps to a 5: AP Calculus AB features an effective, 5-step plan to guide your preparation program and help you build the skills, knowledge, and test-taking confidence you need to succeed. This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam. Inside you will find: 5-Step Plan to a Perfect 5: 1. Set Up Your Study Program 2. Determine Your Test Readiness 3. Develop Strategies for Success 4. Develop the Knowledge You Need to Score High 5. Build Your Test-Taking Confidence 2 complete practice AP Calculus AB exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed, scored, and used

Revise Mathematics to Further Level GCSE Springer Nature

Under pressure and support from the federal government, states have increasingly turned to indicators based on student test scores to evaluate teachers and schools, as well as students themselves. The

focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests, such as in mathematics or English/language arts with a focus on grades 4-8. Teachers in these subject areas, however, constitute less than thirty percent of the teacher workforce in a district. Comparatively little has been written about the measurement of achievement in the other grades and subjects. This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas, with particular attention to their use in the evaluation of teachers and schools in all. It addresses traditional end-of-course tests, as well as alternative measures such as portfolios, exhibitions, and student learning objectives. In each case, issues related to design and development, psychometric considerations, and validity challenges are covered from both a generic and a content-specific perspective. The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research-based applications of educational measurement and assessment. Edited by leading experts, these books are comprehensive and practical resources on the latest developments in the field. The Open Access version of this book, available at <http://www.taylorfrancis.com>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license