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Principles of Physics: A Calculus-Based Text, Volume 1

Cengage Learning **PRINCIPLES OF PHYSICS is the only text specifically written for institutions that offer a calculus-based physics course for their life science majors. Authors Raymond A. Serway and John W. Jewett have revised the Fifth Edition of PRINCIPLES OF PHYSICS to include a new worked example format, new biomedical applications, two new Contexts features, a revised problem set based on an analysis of problem usage data from WebAssign, and a thorough revision of every piece of line art in the text. The Enhanced WebAssign course for PRINCIPLES OF PHYSICS is very robust, with all end-of-chapter problems, an interactive YouBook, and book-specific tutorials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

Principles of Physics: A Calculus-Based Text, Volume 2

Cengage Learning **PRINCIPLES OF PHYSICS is the only text specifically written for institutions that offer a calculus-based physics course for their life science majors. Authors Raymond A. Serway and John W. Jewett have revised the Fifth Edition of PRINCIPLES OF PHYSICS to include a new worked example format, new biomedical applications, two new Contexts features, a revised problem set based on an analysis of problem usage data from WebAssign, and a thorough revision of every piece of line art in the text. The Enhanced WebAssign course for PRINCIPLES OF PHYSICS is very robust, with all end-of-chapter problems, an interactive YouBook, and book-specific tutorials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

Pre-calculus, Custom Publication

A Graphing Approach

Houghton Mifflin

Pre-Calculus For Dummies

John Wiley & Sons **Offers an introduction to the principles of pre-calculus, covering such topics as functions, law of sines and cosines, identities, sequences, series, and binomials.**

The Pre-calculus Problem Solver

Research & Education Assoc. **Provides each kind of problem that might appear on an examination, and includes detailed solutions**

Computer Education for Teachers

Integrating Technology Into Classroom Teaching with Computer Lab and PowerWeb

McGraw-Hill Humanities, Social Sciences & World Languages **Designed to meet the needs of the student unfamiliar with the use of the computer in the classroom, this text is written for undergraduate and graduate education students who want an up-to-date, readable, practical, and concise introduction to computers for teachers. Included in the text are a wealth of classroom lessons that integrate technology.**

Seven Years a Teacher: An Engineer's Perspective On Public Schools

Lulu.com **"A concise analysis of the basic problems with our Public Schools, and a succinct guide to fixing them! Once in the classroom I learned the limitations of the current platform that dictates the operation of Public Schools in the United States. This book adddresses 25 primary and secondary topics that should be addressed if we are serious about Public School reform in the United States. Each chapter is easily read and digested in 20 minutes. The reader should find each chapter entertaining as each contains at least one story that showcases the problem and the ensuing discussion is brief and to the point." -- back cover.**

Pedagogically Founded Courseware Generation for Web-Based Learning

An HTN-Planning-Based Approach Implemented in Paigos

Springer Science & Business Media **Automatic course generation is a very important area of research with numerous practical applications in e-learning. It has been studied since the 1980s within the fields of intelligent tutoring, AI and education, adaptive hypermedia and web-based educational systems. Many approaches have been proposed, but hardly any have resulted in generic and practically applied systems. A number of problems have remained unresolved. These problems are addressed by this work. This book focuses on course generation based on Hierarchical Task Network planning (HTN planning). This course generation framework enables the formalization and application of complex and realistic pedagogical knowledge. The volume describes basic techniques for course generation, which are used to formalize seven different types of courses (for instance, introducing the learner to previously unknown concepts and supporting the learner during rehearsal) and several elementary learning goals (e.g., selecting an appropriate example or exercise). This framework has been implemented and evaluated with good results in several domains, with users from different countries and universities, in the context of an EU project. Course generation based on HTN planning is implemented in PAIGOS and has been evaluated by technical, formative and summative evaluations.**

Acing the New SAT Math

Redesigned For 2016

SAT MATH TEST BOOK

Introduction to Probability

CRC Press **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**

International Workshop on Advanced Learning Technologies

IWALT2000 : Advanced Learning Technology, Design and Development Issues : 4-6

December 2000, Palmerston North, New Zealand : Proceedings

IEEE **This text features the conference proceedings of the International Workshop on Advanced Learning Technologies (IWALT 2000). Topics addressed include: adaptive hypermedia; agents; designing educational systems; distance education; electronic assessment; intelligent tutoring systems; and more.**

Searcher

The Magazine for Database Professionals

Open Middle Math

Problems That Unlock Student Thinking, 6-12

Imagine that you assign a math problem and your students, instead of getting discouraged after not solving it on the first attempt, start working harder--as if on a quest to figure out the answer. They talk to each other and enthusiastically share their discoveries. What could possibly make this fantastic scenario come true? The answer is: the Open Middle math problems and strategies in this book. Open Middle Math by Robert Kaplinsky gives middle and high school teachers the problems and planning guidance that will encourage students to see mathematics in an entirely different light. These challenging and rewarding Open Middle math problems will help you see your students build genuine conceptual understanding, perseverance, and creativity. Inside, you'll learn how to: Implement Open Middle math problems that are simultaneously accessible for both students who are struggling and those looking for more challenge. Select and create Open Middle math problems that will help you detect students' misconceptions and strengthen their conceptual understanding. Prepare for and facilitate powerful classroom conversations using Open Middle math problems. Access resources that will help you continue learning beyond this book. With these practical and intuitive strategies, extensive resources, and Robert's own stories about his journey learning to use Open Middle math problems successfully, you will be able to support, challenge, and motivate all your students.

Modern Cryptography

Current Challenges and Solutions

BoD – Books on Demand **Cyber security is taking on an important role in information systems and data transmission over public networks. This is due to the widespread use of the Internet for business and social purposes. This increase in use encourages data capturing for malicious purposes. To counteract this, many solutions have been proposed and introduced during the past 80 years, but Cryptography is the most effective tool. Some other tools incorporate complicated and long arithmetic calculations, vast resources consumption, and long execution time, resulting in it becoming less effective in handling high data volumes, large bandwidth, and fast transmission. Adding to it the availability of quantum computing, cryptography seems to lose its importance. To restate the effectiveness of cryptography, researchers have proposed improvements. This book discusses and examines several such improvements and solutions.**

Calculus for Business, Economics, and the Social and Life Sciences

Calculus for Business, Economics, and the Social and Life Sciences introduces calculus in real-world contexts and provides a sound, intuitive understanding of the basic concepts students need as they pursue careers in business, the life sciences, and the social sciences. The new Ninth Edition builds on the straightforward writing style, practical applications from a variety of disciplines, clear step-by-step problem solving techniques, and comprehensive exercise sets that have been hallmarks of Hoffmann/Bradley's success through the years.

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

25 Years of Model Checking

History, Achievements, Perspectives

Springer **Model checking technology is among the foremost applications of logic to computer science and computer engineering. The model checking community has achieved many breakthroughs, bridging the gap between theoretical computer science and hardware and software engineering, and it is reaching out to new challenging areas such as system biology and hybrid systems. Model checking is extensively used in the hardware industry and has also been applied to the verification of many types of software. Model checking has been introduced into computer science and electrical engineering curricula at universities worldwide and has become a universal tool for the analysis of systems. This Festschrift volume, published in celebration of the 25th Anniversary of Model Checking, includes a collection of 11 invited papers based on talks at the symposium "25 Years of Model Checking", 25MC, which was part of the 18th International Conference on Computer Aided Verification (CAV 2006), which in turn was part of the Federated Logic Conference (FLoC 2006) held in Seattle, WA, USA, in August 2006. Model checking is currently attracting considerable attention beyond the core technical community, and the ACM Turing Award 2007 was given in recognition of the paradigm-shifting work on this topic initiated a quarter century ago. Here we honor that achievement with the inclusion of facsimile reprints of the visionary papers on model checking by Edmund Clarke and Allen Emerson, and by Jean-Pierre Queille and Joseph Sifakis.**

The Calculus Lifesaver

All the Tools You Need to Excel at Calculus

Princeton University Press **For many students, calculus can be the most mystifying and frustrating course they will ever take. Based upon Adrian Banner's popular calculus review course at Princeton University, this book provides students with the essential tools they need not only to learn calculus, but also to excel at it.**

Pre-Calculus

Each step higher in math studies is crucial to doing well at the next level. Pre-Calc is the gateway to higher level mathematics of which the best degrees and careers are built upon. The core essentials in 6 laminated pages can be used along with your text and lectures, as a review before testing, or as a memory companion that keeps key answers always at your fingertips. The most answers for your money in what students have said is "a must have" study tool. Suggested uses: o Quick Reference - instead of digging into the textbook to find a core answer you need while studying, use the guide to reinforce quickly and repeatedly o Memory - refreshing your memory repeatedly is a foundation of studying, have the core answers handy so you can focus on understanding the concepts o Test Prep - no student should be cramming, but if you are, there is no better tool for that final review

Computerworld

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Thomas' Calculus

Pearson Education India

Fundamentals of College Algebra

PWS Publishing Company **Through eight editions, Swokowski's mathematical accuracy continues to be a trademark. Swokowski's unique problem sets present a variety of challenging and motivating exercises for students. Currently, the Seventh Edition is used at more than sixty U.S. schools.**

Introduction to Applied Linear Algebra

Vectors, Matrices, and Least Squares

Cambridge University Press **A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.**

Mathematics Teaching in the Middle School

Fundamentals of Algebra and Trigonometry

PWS Publishing Company **This classic in the series of highly respected Swokowski/Cole mathematics texts retains the elements that have made it so popular with instructors and students alike: it is clearly written, the time-tested exercise sets feature a variety of applications, its exposition is clear, its uncluttered layout is appealing, and the difficulty level of problems is appropriate and consistent. Now this Ninth Edition of Fundamentals of Algebra and Trigonometry has been improved in three important ways. First, discussions have been rewritten to enable students to more easily understand the mathematical concepts presented. Second, exercises have been added that require students to estimate, approximate, interpret a result, write a summary, create a model, explore, or find a generalization. Third, graphing calculators have been incorporated to a greater extent through the addition of examples and exercises as well as the inclusion of a cross-referenced appendix on the use of the TI-82/83. All of this has been accomplished without compromising the mathematical integrity that is the hallmark of this text.**

Relational Databases

State of the Art Report 14:5

Elsevier **Relational Databases explores the major advances in relational databases and provides a balanced analysis of the state of the art in relational databases. Topics covered include capture and analysis of data placement requirements; distributed relational database systems; data dependency manipulation in database schemata; and relational database support for computer graphics and computer aided design. This book is divided into three sections and begins with an overview of the theory and practice of distributed systems, using the example of INGRES from Relational Technology as illustration. The following chapters focus on whether relational and relational-like systems actually meet business needs; IBM's Structured Query Language/Data System (SQL/DS); tools for database design and programming; and Secondary Access Methods and the problem of secondary index selection. A number of quantitative models for assessing the performance of physical databases are also described. This text concludes by assessing some of the most conspicuous trends in relational database research and development. This monograph will be of interest to database designers.**

The Software Encyclopedia

Clinical Engineering Handbook

Academic Press **Author Joseph Dyro has been awarded the Association for the Advancement of Medical Instrumentation (AAMI) Clinical/Biomedical Engineering Achievement Award which recognizes individual excellence and achievement in the clinical engineering and biomedical engineering fields. He has also been awarded the American College of Clinical Engineering 2005 Tom O'Dea Advocacy Award. As the biomedical engineering field expands throughout the world, clinical engineers play an evermore important role as the translator between the worlds of the medical, engineering, and business professionals. They influence procedure and policy at research facilities, universities and private and government agencies including the Food and Drug Administration and the World Health Organization. Clinical Engineers were key players in calming the hysteria over electrical safety in the 1970's and Y2K at the turn of the century and continue to work for medical safety. This title brings together all the important aspects of Clinical Engineering. It provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world. * Clinical Engineers are the safety and quality faciltators in all medical facilities.**

The Wireless Age

Resources in Education

Research in Education

AP Calculus AB Prep Plus 2020 & 2021

8 Practice Tests + Study Plans + Targeted Review & Practice + Online

Simon and Schuster **Kaplan's AP Calculus AB Prep Plus 2020 & 2021 is revised to align with the latest exam. This edition features more than 1,000 practice questions in the book and online, complete explanations for every question, and a concise review of high-yield content to quickly build your skills and confidence. Test-like practice comes in 8 full-length exams, 11 pre-chapter quizzes, 11 post-chapter quizzes, and 22 online quizzes. Customizable study plans ensure that you make the most of the study time you have. We're so confident that AP Calculus AB Prep Plus offers the guidance you need that we guarantee it: after studying with our online resources and book, you'll score higher on the exam—or you'll get your money back. To access your online resources, go to kaptest.com/moreonline and follow the directions. You'll need your book handy to complete the process. The College Board has announced that the 2021 exam dates for AP Calculus AB will be May 4, May 24, or June 9, depending on the testing format. (Each school will determine the testing format for their students.) Expert Guidance We know the test—our AP experts make sure our practice questions and study materials are true to the exam. We know students—every explanation is written to help you learn, and our tips on the exam structure and question formats will help you avoid surprises on Test Day. We invented test prep—Kaplan (kaptest.com) has been helping students for 80 years, and 9 out of 10 Kaplan students get into one or more of their top-choice colleges.**

THE Journal

Technological Horizons in Education

Calculus 30 : a Curriculum Guide for the Secondary Level

[Regina] : Saskatchewan Learning

Trade and Industrial Education; Instructional Materials

Trade and Industrial Education

Instructional Materials

Statistics and Probability for Engineering Applications

Elsevier **Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for**

today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

Notices of the American Mathematical Society

Computational Complexity

A Modern Approach

Cambridge University Press **New and classical results in computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.**

U.S. Government Research Reports