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The SAGE Handbook of E-learning Research
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University Physics Volume 1 of 3 (1st Edition Textbook)

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Tutorials in Introductory Physics: Homework Silly Beagle Productions

The process of developing models, known as modeling, allows scientists to visualize difficult concepts, explain complex phenomena and clarify intricate theories. In recent years, science educators have greatly increased their use of modeling in teaching, especially real-time dynamic modeling, which is central to a scientific investigation. Modeling in science teaching is being used in an array of fields, everything from primary sciences to tertiary chemistry to college physics, and it is sure to play an increasing role in the future of education. Models and Modeling: Cognitive Tools for Scientific Enquiry is a comprehensive introduction to the use of models and modeling in science education. It identifies and describes many different modeling tools and presents recent applications of modeling as a cognitive tool for scientific enquiry.

Brain-powered Science Nomad Press

"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. Volume 2 covers thermodynamics, electricity and magnetism, and Volume 3 covers optics and modern physics. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.

Science Learning and Instruction GradePod

The new edition of The SAGE Handbook of E-Learning Research retains the original effort of the first edition by focusing on research while capturing the leading edge of e-learning development and practice. Chapters focus on areas of development in e-learning technology, theory, practice, pedagogy and method of analysis. Covering the full extent of e-learning can be a challenge as developments and new features appear daily. The editors of this book meet this challenge by including contributions from leading researchers in areas that have gained a sufficient critical mass to provide reliable results and practices. The 25 chapters are organised into six key areas: 1. THEORY 2. LITERACY & LEARNING 3. METHODS & PERSPECTIVES 4. PEDAGOGY & PRACTICE 5. BEYOND THE CLASSROOM 6. FUTURES

Dawn Over Mount Hira, and Other Essays Wiley Global Education

"Reaching Students presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples and case studies illustrate how experienced instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective

techniques within a department or an institution, and addressed the challenges that arose along the way."--Provided by publisher.

Helen of the Old House Springer

Microsystems are systems that integrate, on a chip or a package, one or more of many different categories of microdevices. As the past few decades were dominated by the development and rapid miniaturization of circuitry, the current and coming decades are witnessing a similar revolution in the miniaturization of sensors, actuators, and electronics; and communication, control and power devices. Applications ranging from biomedicine to warfare are driving rapid innovation and growth in the field, which is pushing this topic into graduate and undergraduate curricula in electrical, mechanical, and biomedical engineering.

Micro and Smart Systems Taylor & Francis

considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom, laboratory and workshop can support and encourage all pupils to engage fully in STEM addresses the practicalities of introducing, organising and sustaining STEM-related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long-term

Learning with Multiple Representations Addison-Wesley

This book seeks to narrow the current gap between educational research and classroom practice in the teaching of physics. It makes a detailed analysis of research findings derived from experiments involving pupils, students and teachers in the field. Clear guidelines are laid down for the development and evaluation of sequences, drawing attention to "critical details" of the practice of teaching that may spell success or failure for the project. It is intended for researchers in science teaching, teacher trainers and teachers of physics.

Open Source Physics Springer Science & Business Media

Chemistry 2e is designed to meet the scope and sequence requirements of the two-semester general chemistry course. The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The book also includes a number of innovative features, including interactive exercises and real-world applications, designed to enhance student learning. The second edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Substantial improvements have been made in the figures, illustrations, and example exercises that support the text narrative. Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition.

Effective Blended Learning Practices: Evidence-Based Perspectives in ICT-Facilitated Education Routledge

Provides insight into the practice of blended learning in higher education.

Teaching STEM in the Secondary School Addison-Wesley Longman

KEY BENEFIT: The Open Source Physics project provides a comprehensive collection of Java applications, smaller ready-to-run simulations, and computer-based interactive curricular material. This book provides all the background required to make best use of this material and is designed for scientists and students wishing to learn object-oriented programming using Java in order to write their own simulations and develop their own curricular material. The book provides a convenient overview of the Open Source Physics library and gives many examples of how the material can be used in a wide range of teaching and learning scenarios. Both source code and compiled ready-to-run examples are conveniently included on the accompanying CD-ROM. The book also explains how to use the Open Source Physics library to develop and distribute new curricular material. Introduction to Open Source Physics, A Tour of Open Source Physics, Frames Package, Drawing, Controls and Threads, Plotting, Animation, Images, and Buffering, Two-Dimensional Scalar and Vector Fields, Differential Equations and Dynamics, Numerics, XML Documents, Visualization in Three Dimensions, Video, Utilities, Launching Physics Curricular Material, Tracker Video Analysis, Easy Java Simulations Modeling, The BQ Database For all readers interested in learning object-oriented programming using Java in order to write their own simulations and develop their own curricular material.

Hands-On Engineering Amer Psychological Assn

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. Putting physics first Based on his storied research and teaching, Eric Mazur's Principles & Practice of Physics builds an understanding of physics that is both thorough and accessible. Unique organization and pedagogy allow you to develop a true conceptual understanding of physics alongside the quantitative skills needed in the course. New learning architecture: The book is structured to help you learn physics in an organized way that encourages comprehension and reduces distraction. Physics on a contemporary foundation: Traditional texts delay the introduction of ideas that we now see as unifying and foundational. This text builds physics on those unifying foundations, helping you to develop an understanding that is stronger, deeper, and fundamentally simpler. Research-based instruction: This text uses a range of research-based instructional techniques to teach physics in the most effective manner possible. The result is a groundbreaking book that puts physics first, thereby making it more accessible to you to learn. MasteringPhysics® works with the text to create a learning program that enables you to learn both in and out of the classroom. The result is a groundbreaking book that puts physics first, thereby making it more accessible to students and easier for instructors to teach. Note:

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Reconsidering Conceptual Change: Issues in Theory and Practice Routledge

How did somebody come up with the idea for bridges, skyscrapers, helicopters, and nightlights? How did people figure out how to build them? In 3D Engineering: Design and Build Your Own Prototypes, young readers tackle real-life engineering problems by figuring out real-life solutions. Kids apply science and math skills to create prototypes for bridges, instruments, alarms, and more. Prototypes are preliminary models used by engineers—and kids—to evaluate ideas and to better understand how things work. Engineering design starts with an idea. How do we get to the other side of the river? How do we travel long distances in short times? Using a structured engineering design process, kids learn how to brainstorm, build a prototype, test a prototype, evaluate, and re-design. Projects include designing a cardboard chair to understand the stiffness of structural systems and designing and building a set of pan pipes to experiment with pitch and volume. Creating prototypes is a key step in the engineering design process and prototyping early in the design process generally results in better processes and products. 3D Engineering gives kids a chance to figure out many different prototypes, empowering them to discover the mechanics of the world we know.

Key Competences in Physics Teaching and Learning Springer Science & Business Media

Working in an interdisciplinary manner is long pursued but a difficult goal of science and mathematics education. The interdisciplinarity of science and mathematics can occur when connections between those disciplines are identified and developed. These connections could be expressed in the educational policies, curriculum, or in the science and mathematics teachers' educational practices. Sometimes those connections are scarce, but in other moments, full integration is achieved. The Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education presents results of good practices and interdisciplinary educational approaches in science and mathematics. It presents a broad range of approaches for all educational levels, from kindergarten to university. Covering topics such as computer programming, mathematics in environmental issues, and simple machines, this major reference work is an excellent resource for administrators and educators of both K-12 and higher education, government officials, pre-service teachers, teacher educators, librarians, researchers, and academicians.

The Physical Treatises of Pascal IGI Global

This book is an important account of the state of the art of both theoretical and practical issues in the present-day research on conceptual change. Unique in its complete treatment of the questions that should be considered to further current understanding of knowledge construction and change, this book is useful for psychologists, cognitive scientists, educational researchers, curriculum developers, teachers and educators at all levels and in all disciplines.

Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education Emerald Group Publishing

APlusPhysics: Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire

New York State Regents Physics curriculum, preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam. Topics covered include pre-requisite math and trigonometry; kinematics; forces; Newton's Laws of Motion, circular motion and gravity; impulse and momentum; work, energy, and power; electrostatics; electric circuits; magnetism; waves; optics; and modern physics. Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with the APlusPhysics.com website, which includes online question and answer forums, videos, animations, and supplemental problems to help you master Regents Physics essentials. "The best physics books are the ones kids will actually read." Advance Praise for APlusPhysics Regents Physics Essentials: "Very well written... simple, clear engaging and accessible. You hit a grand slam with this review book." -- Anthony, NY Regents Physics Teacher. "Does a great job giving students what they need to know. The value provided is amazing." -- Tom, NY Regents Physics Teacher. "This was tremendous preparation for my physics test. I love the detailed problem solutions." -- Jenny, NY Regents Physics Student. "Regents Physics Essentials has all the information you could ever need and is much easier to understand than many other textbooks... it is an excellent review tool and is truly written for students." -- Cat, NY Regents Physics Student

How Students Learn Oxford [Eng.] : G. Ronald

Erich Fromm was a political activist, psychologist, psychoanalyst, philosopher, and one of the most important intellectuals of the twentieth century. Known for his theories of personality and political insight, Fromm dissected the sadomasochistic appeal of brutal dictators while also eloquently championing love—which, he insisted, was nothing if it did not involve joyful contact with others and humanity at large. Admired all over the world, Fromm continues to inspire with his message of universal brotherhood and quest for lasting peace. The first systematic study of Fromm's influences and achievements, this biography revisits the thinker's most important works, especially *Escape from Freedom* and *The Art of Loving*, which conveyed important and complex ideas to millions of readers. The volume recounts Fromm's political activism as a founder and major funder of Amnesty International, the National Committee for a Sane Nuclear Policy, and other peace groups. Consulting rare archival materials across the globe, Lawrence J. Friedman reveals Fromm's support for anti-Stalinist democratic movements in Central and Eastern Europe and his efforts to revitalize American democracy. For the first time, readers learn about Fromm's direct contact with high officials in the American government on matters of war and peace while accessing a deeper understanding of his conceptual differences with Freud, his rapport with Neo-Freudians like Karen Horney and Harry Stack Sullivan, and his association with innovative artists, public intellectuals, and world leaders. Friedman elucidates Fromm's key intellectual contributions, especially his innovative concept of "social character," in which social institutions and practices shape the inner psyche, and he clarifies Fromm's conception of love as an acquired skill. Taking full stock of the thinker's historical and global accomplishments, Friedman portrays a man of immense authenticity and spirituality who made life in the twentieth century more humane than it might have been.

Interactivity in E-Learning: Case Studies and Frameworks NSTA Press

This book presents a selection of the best contributions to GIREP EPEC 2015, the Conference of the International Research Group on Physics Teaching (GIREP) and the European Physical Society's Physics Education Division (EPS PED). It introduces readers interested in the field to the problem of identifying strategies and tools to improve physics teaching and learning so as to convey Key Competences and help students acquire them. The main topic of the conference was Key Competences (KC) in physics teaching and learning in the form of knowledge, skills and attitudes that are fundamental for every member of society. Given the role of physics as a field strongly connected not only to digital competence but also to several other Key Competences, this conference provided a forum for in-depth discussions of related issues.

Teaching Science Online IGI Global

Interactivity in E-Learning: Case Studies and Frameworks IGI Global

Chemistry 2e Cambridge University Press

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all students have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum—and how that can be accomplished.

The ULTIMATE IB Physics Internal Assessment Guide (2024 Exams) Routledge

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