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Founded in 2002 by Nobel Laureate Carl Wieman, the PhET Interactive Simulations project at the University of Colorado Boulder creates free interactive math and science simulations. PhET sims are based on extensive education <a {0}> research and engage students through an intuitive, game-like environment where

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students learn through exploration and discovery.

~~Charles's Law Lab - PhET Contribution~~

Charles ' s Law Computer Activity. Follow instructions from your teacher to access and open the Gas Properties Simulation. Or you can go to <http://phet.colorado.edu/simulations/> and find the...

~~Charles Law Computer Activity - Christopher Gord.doc~~

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Browse Activities Charles' Law Lab and Gay-Lussac's Law Lab H:\Chemistry - school folder\Chemistry 2010-2011\Unit 10 - Gas Laws\Charles Law (V-T) Computer Activity.doc - 36 kB

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Charles' Law Computer Simulation.

http://pages.uoregon.edu/tgreenbo/charles_law.html

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Founded in 2002 by Nobel Laureate Carl Wieman, the PhET Interactive Simulations project at the University of Colorado Boulder creates free interactive math and science simulations. PhET sims are based on extensive education [research](#) and engage students through an intuitive, game-like environment where students learn through exploration and discovery.

~~Boyle's Law Lab - PhET Contribution~~

In this simulation, students will investigate three of the fundamental gas laws, including Boyle ' s Law, Charles ' Law and Gay-Lussac ' s Law. Students will have the opportunity to visually examine the effect of changing

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the associated variables of pressure, volume, or temperature in each situation.

~~Classroom Resources | Gas Laws Simulation | AACT~~

1. Students are first doing a PhET activity where they are looking at the variables involved with gases by trying to get the top to pop off of the container. The goal is for them to see that adding heat, decreasing the volume, or adding more particles will cause the top to pop off. This movie explains how the activity works.

~~Ninth grade Lesson Exploring Gas Behavior |
BetterLesson~~

Charles s Law Lab PhET Contribution. ... Read and

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Download Ebook Gas Law Computer Simulation Answer Key PDF at Public Ebook Library GAS LAW COMPUTER SIMULATION ... Introduction to the gas laws Description A brief introduction to the gas laws using the Gas Properties HTML5 PhET Simulation This first 5 activities can generally be completed in one ...

~~Phet Lab Gas Laws Answer Key~~

First, you need to insert three of the parameters, and the fourth one is calculated for you automatically. Let's say we want to find the final volume, then the Charles' law formula yields: $V_2 = V_1 / T_1 * T_2$. If you prefer to set the final volume and want to estimate the resulting temperature, then the equation of Charles' law

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changes to:

~~Charles' Law Calculator~~

Boyles Law . 1. Pump the handle 1 or 2 times to get gas into the simulation. Select “ Temperature ” in the Constant Parameter section in the upper right hand portion of the window. This will create conditions that follow Boyles Law. 2. Change the volume of the space by moving the left handle of the container in and out. Be patient and

~~Gas Law Computer Simulation Boyles and Charles Laws~~

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If you are a chemistry instructor (high school, AP

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Chemistry, or college) using this Flash-based computer simulation in your chemistry classroom, please consider making a voluntary donation to the University of Oregon Foundation "Chemistry Achievement Endowment Fund".

~~Boyle's Law Computer Simulation | Chemdemos~~
Boyle ' s Law Computer Activity. Follow instructions from your teacher to access and open the Gas Properties Simulation. Or you can go to <http://phet.colorado.edu/simulations/> and find the simulation...

~~Boyle's Law Computer Activity - Christopher~~

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~~Gord.docx ...~~

charles_law - University of Oregon

~~charles_law - University of Oregon~~

boyles_law - University of Oregon

~~boyles_law - University of Oregon~~

The simulation for the November 2015 issue allows students to investigate three of the fundamental gas laws, including Boyle ' s Law, Charles ' Law and Gay-Lussac ' s Law. Students will have the opportunity to visually examine the effect of changing the associated variables of pressure, volume, or temperature in each situation.

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~~Classroom Resources | Simulations | AACT~~

Gas Laws: Charles's Law

www.chm.davidson.edu/vce/GasLaws/CharlesLaw.html

Gas Laws Charles's Law Concepts. The next significant advance in the study of gases came in the early 1800's in France. Hot air balloons were extremely popular at ... MoLE Gas Laws Activities - Intro.chem.okstate.edu intro.chem.okstate.edu/2001ACS/MoLEGasLawManual.pdf · PDF file

The main idea of this book is that to comprehend the instructional potential of simulation and to design

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effective simulation-based learning environments, one has to consider both what happens inside the computer and inside the students' minds. The framework adopted to do this is model-centered learning, in which simulation is seen as particularly effective when learning requires a restructuring of the individual mental models of the students, as in conceptual change. Mental models are by themselves simulations, and thus simulation models can extend our biological capacity to carry out simulative reasoning. For this reason, recent approaches in cognitive science like embodied cognition and the extended mind hypothesis are also considered in the book.. A conceptual model called the “ epistemic simulation cycle ” is proposed as a

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blueprint for the comprehension of the cognitive activities involved in simulation-based learning and for instructional design.

At a time when scientific and technological competence is vital to the nation's future, the weak performance of U.S. students in science reflects the uneven quality of current science education. Although young children come to school with innate curiosity and intuitive ideas about the world around them, science classes rarely tap this potential. Many experts have called for a new approach to science education, based on recent and ongoing research on teaching and learning. In this approach, simulations and games could play a

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significant role by addressing many goals and mechanisms for learning science: the motivation to learn science, conceptual understanding, science process skills, understanding of the nature of science, scientific discourse and argumentation, and identification with science and science learning. To explore this potential, Learning Science: Computer Games, Simulations, and Education, reviews the available research on learning science through interaction with digital simulations and games. It considers the potential of digital games and simulations to contribute to learning science in schools, in informal out-of-school settings, and everyday life. The book also identifies the areas in which more research and

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research-based development is needed to fully capitalize on this potential. Learning Science will guide academic researchers; developers, publishers, and entrepreneurs from the digital simulation and gaming community; and education practitioners and policy makers toward the formation of research and development partnerships that will facilitate rich intellectual collaboration. Industry, government agencies and foundations will play a significant role through start-up and ongoing support to ensure that digital games and simulations will not only excite and entertain, but also motivate and educate.

"Visual Quantum Mechanics" uses the computer-

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generated animations found on the accompanying material on Springer Extras to introduce, motivate, and illustrate the concepts explained in the book. While there are other books on the market that use Mathematica or Maple to teach quantum mechanics, this book differs in that the text describes the mathematical and physical ideas of quantum mechanics in the conventional manner. There is no special emphasis on computational physics or requirement that the reader know a symbolic computation package. Despite the presentation of rather advanced topics, the book requires only calculus, making complicated results more comprehensible via visualization. The material on Springer Extras provides easy access to more than 300

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digital movies, animated illustrations, and interactive pictures. This book along with its extra online materials forms a complete introductory course on spinless particles in one and two dimensions.

Teaching at Its Best This third edition of the best-selling handbook offers faculty at all levels an essential toolbox of hundreds of practical teaching techniques, formats, classroom activities, and exercises, all of which can be implemented immediately. This thoroughly revised edition includes the newest portrait of the Millennial student; current research from cognitive psychology; a focus on outcomes maps; the latest legal options on copyright issues; and how to

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best use new technology including wikis, blogs, podcasts, vodcasts, and clickers. Entirely new chapters include subjects such as matching teaching methods with learning outcomes, inquiry-guided learning, and using visuals to teach, and new sections address Felder and Silverman's Index of Learning Styles, SCALE-UP classrooms, multiple true-false test items, and much more. Praise for the Third Edition of Teaching at Its Best Everyone—veterans as well as novices—will profit from reading Teaching at Its Best, for it provides both theory and practical suggestions for handling all of the problems one encounters in teaching classes varying in size, ability, and motivation."—Wilbert McKeachie, Department of Psychology, University of Michigan, and

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coauthor, McKeachie's Teaching Tips This new edition of Dr. Nilson's book, with its completely updated material and several new topics, is an even more powerful collection of ideas and tools than the last. What a great resource, especially for beginning teachers but also for us veterans!"—L. Dee Fink, author, Creating Significant Learning Experiences This third edition of Teaching at Its Best is successful at weaving the latest research on teaching and learning into what was already a thorough exploration of each topic. New information on how we learn, how students develop, and innovations in instructional strategies complement the solid foundation established in the first two editions."—Marilla D. Svinicki, Department of

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Psychology, The University of Texas, Austin, and coauthor, McKeachie's Teaching Tips

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of MyLab(tm) and Mastering(tm) platforms exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a Course ID, provided by your

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Chemistry work with the book to provide seamless and tightly integrated videos and other rich media and assessment throughout the course. Instructors can assign interactive media before class to engage students and ensure they arrive ready to learn. Students further master concepts through book-specific Mastering Chemistry assignments, which provide hints and answer-specific feedback that build problem-solving skills. With Learning Catalytics(tm) instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups. Mastering Chemistry now provides students with the new General Chemistry Primer for remediation of chemistry and

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math skills needed in the general chemistry course. If you would like to purchase both the loose-leaf version of the text and MyLab and Mastering, search for: 0134557328 / 9780134557328 Chemistry: The Central Science, Books a la Carte Plus MasteringChemistry with Pearson eText -- Access Card Package Package consists of: 0134294165 / 9780134294162 MasteringChemistry with Pearson eText -- ValuePack Access Card -- for Chemistry: The Central Science 0134555635 / 9780134555638 Chemistry: The Central Science, Books a la Carte Edition

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Introduction to Modeling and Simulation with MATLAB and Python is intended for students and professionals in science, social science, and engineering that wish to learn the principles of computer modeling, as well as basic programming skills. The book content focuses on meeting a set of basic modeling and simulation competencies that were developed as part of several National Science Foundation grants. Even though computer science students are much more expert programmers, they are not often given the opportunity to see how those skills are being applied to solve complex science and engineering problems and may also not be aware of the libraries used by scientists to create those models. The book interleaves chapters on

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modeling concepts and related exercises with programming concepts and exercises. The authors start with an introduction to modeling and its importance to current practices in the sciences and engineering. They introduce each of the programming environments and the syntax used to represent variables and compute mathematical equations and functions. As students gain more programming expertise, the authors return to modeling concepts, providing starting code for a variety of exercises where students add additional code to solve the problem and provide an analysis of the outcomes. In this way, the book builds both modeling and programming expertise with a "just-in-time" approach so that by the end of the book, students can

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take on relatively simple modeling example on their own. Each chapter is supplemented with references to additional reading, tutorials, and exercises that guide students to additional help and allows them to practice both their programming and analytical modeling skills. In addition, each of the programming related chapters is divided into two parts – one for MATLAB and one for Python. In these chapters, the authors also refer to additional online tutorials that students can use if they are having difficulty with any of the topics. The book culminates with a set of final project exercise suggestions that incorporate both the modeling and programming skills provided in the rest of the volume. Those projects could be undertaken by individuals or

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small groups of students. The companion website at <http://www.intromodeling.com> provides updates to instructions when there are substantial changes in software versions, as well as electronic copies of exercises and the related code. The website also offers a space where people can suggest additional projects they are willing to share as well as comments on the existing projects and exercises throughout the book. Solutions and lecture notes will also be available for qualifying instructors.

Athletes in all sports rely on speed. Whether it involves sprinting down the court on a fast break or chasing a loose ball, speed often contributes to overall athletic

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ability. Developing Speed teaches you how to elevate your speed in a scientifically based manner that will have you blowing by the competition. Written by eight of the top National Strength and Conditioning Association experts, Developing Speed is your guide to elite-level speed development, regardless of your sport. In addition to the scientific coverage of speed development, this guide helps you assess your current ability and identify your areas of greatest need. Using this information, along with the most effective drills and exercises, you ' ll have the tools and information for creating your own speed development program. If increasing your athletic speed is what you ' re seeking, then look no further. With the cutting-edge information

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packed into this one resource, you ' ll achieve new personal bests and reach your most aggressive goals. Developing Speed is the only tool you need to develop your personal program and take your speed to the highest level!

Affordable education. Transparent science. Accessible scholarship. These ideals are slowly becoming a reality thanks to the open education, open science, and open access movements. Running separate—if parallel—courses, they all share a philosophy of equity, progress, and justice. This book shares the stories, motives, insights, and practical tips from global leaders in the open movement.

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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

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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

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The Birth of Stars and the Discovery of Planets outside
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to Old Age Chapter 23: The Death of Stars Chapter 24:
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Milky Way Galaxy Chapter 26: Galaxies Chapter 27:

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Star Charts and Sky Event Resources

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