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UW Press: Physics Demonstrations

Appeared in Choice on 2006-07-01: Sprott (physics, Univ. of Wisconsin-Madison) has compiled this book of 85 demonstrations performed at the University of Wisconsin-Madison. The demonstrations, all from the standard fields of "non-modern" physics (i.e., no relativistic, nuclear, atomic, molecular, or condensed matter physics), include photos, a list of required materials (with commercial sources), procedures, discussion, possible hazards, and some references.

Physics demonstrations : a sourcebook for teachers of ...

This book is a compilation of many of the demonstrations that have been used at the University of Wisconsin - Madison in the teaching of elementary physics over the years as well as a number of demonstrations that I have developed for use in a series of popular lectures, "The Wonders of Physics," aimed at the general public and children in particular.

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lessons, activities, and strategies, as well as explanations of how to adapt these for English learners and diverse student populations.

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Comes with 2 DVDs! Julien Clinton Sprott, physics professor at the University of Wisconsin, shares demonstrations tested by years of teaching in his popular lecture series, “ The Wonders of Physics. ”

Physics - AAPT

Julien Clinton Sprott, "2.25, Firehose Instability", Physics Demonstrations - A Sourcebook for Teachers of Physics, p. 131. Disclaimer: These demonstrations are provided only for illustrative use by persons affiliated with The University of Iowa and only under the direction of a trained instructor or physicist.

1N22.51 - Firehose Instability | Instructional Resources ...

Yaakov Kraftmakher, a professor emeritus of physics at Bar-Ilan University in Israel, has written a nearly encyclopedic book containing 88 experiments and demonstrations that he has developed, adapted, or refined for his university. Having published extensively in physics education journals during the past 50 years, he is well qualified for the task.

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Previously published in 2006 as a book with 2 DVDs included, this work is being reprinted with corrections as just the book, with the DVD content now available online.

Sprott ' s demonstrations will fascinate, amaze, and teach students the wonders of physics. A compilation of physics demonstrations performed at the University of Wisconsin–Madison and in the popular lecture series The Wonders of Physics, Physics Demonstrations includes demonstrations illustrating properties of motion, heat, sound, electricity, magnetism, and light. All demonstrations include a brief description, a materials list, preparation procedures, a provocative discussion of the phenomena displayed and the principles illustrated, important information about potential hazards, and references. Suitable for performance outside the laboratory, Sprott ' s demonstrations are an indispensable teaching tool.

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activities, lesson plans, experiments, demonstrations, and games for teaching physics, chemistry, biology, and the earth and space sciences.

The demonstrations capture interest, teach, inform, fascinate, amaze, and perhaps, most importantly, involve students in chemistry. Nowhere else will you find books that answer, "How come it happens? . . . Is it safe? . . . What do I do with all the stuff when the demo is over?" Shkhashiri and his collaborators offer 282 chemical demonstrations arranged in 11 chapters. Each demonstration includes seven sections: a brief summary, a materials list, a step-by-step account of procedures to be used, an explanation of the hazards involved, information on how to store or dispose of the chemicals used, a discussion of the phenomena displayed and principles illustrated by the demonstration, and a list of references. You'll find safety emphasized throughout the book in each demonstration. "

This comprehensive collection of nearly 200 investigations, demonstrations, mini-labs, and other activities uses everyday examples to make physics concepts easy to understand. For quick access, materials are organized into eight units covering Measurement, Motion, Force, Pressure, Energy & Momentum, Waves, Light, and Electromagnetism. Each lesson contains an introduction with common knowledge examples, reproducible pages for students, a "To the Teacher" information section, and a listing of additional applications students can relate to. Over 300 illustrations add interest and supplement instruction.

Presents more than 1,000 experiments selected from worldwide sources, from high school through graduate level.

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Offers over 100 demonstrations guaranteed to make chemistry more understandable and more fun for students. Provides easy-to-prepare, practical, and economical demonstrations that visually introduce many of the major concepts in chemistry. Supplements any chemistry text, lab book, or classroom situation. Includes a simple format for easy reference, teaching tips and full explanations for each demonstration, and notes and questions for classroom use. Helps to stimulate student interest and develop reasoning skills. Serves as a vital asset to everyone teaching or demonstrating general chemistry principles -- Publisher's description.

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