

73 Easy-to-do Experiments (NO SPECIAL EQUIPMENT NEEDED) Illustrate Important Scientific Principles ...

Science Experiments and **Amusements for Children** BY CHARLES VIVIAN

By working only with "equipment" that can be found around the home or bought at very little expense, the 73 scientific experiments described step by step in this book will acquaint young people with dozens of the basic principles of physics, chemistry, mechanics, and engineering.

True scientific experiments—not 'tricks or optical illusions! -not "magic"

Steel wool, cotton, candles, an eye-dropper, a cork, coins, magnets, a bottle, water, a rubber tube—these are the materials needed for experimenting with burning steel, making a pinhole camera or a 3-d viewer, showing how hot water rises, setting up sympathetic vibrations, making rain or invisible ink, demonstrating capillary action or the expansion of liquids when heated, reflecting sound, electrifying a bubble, showing heat conduction, making an airscrew, and much more.

The instructions are clear enough for young scientists to follow on their

own and the book's 102 photographs and many drawings make it easy to set up the experiments properly and to follow the directions. Used in beginning science classes or in at-home laboratories, this book is an unusually serious and effective first-book of science, rich in background explanations of why things happen as they do. It is diverting and educational at the same time.

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COVER

The skull of a 500,000-year-old Peking woman was reconstructed from fragments unearthed some 40 years ago. A recent announcement from Red China of new findings has resurrected an old mystery: where is the first-found Peking man? P. 592. (Photo: The American Museum of Natural History)

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