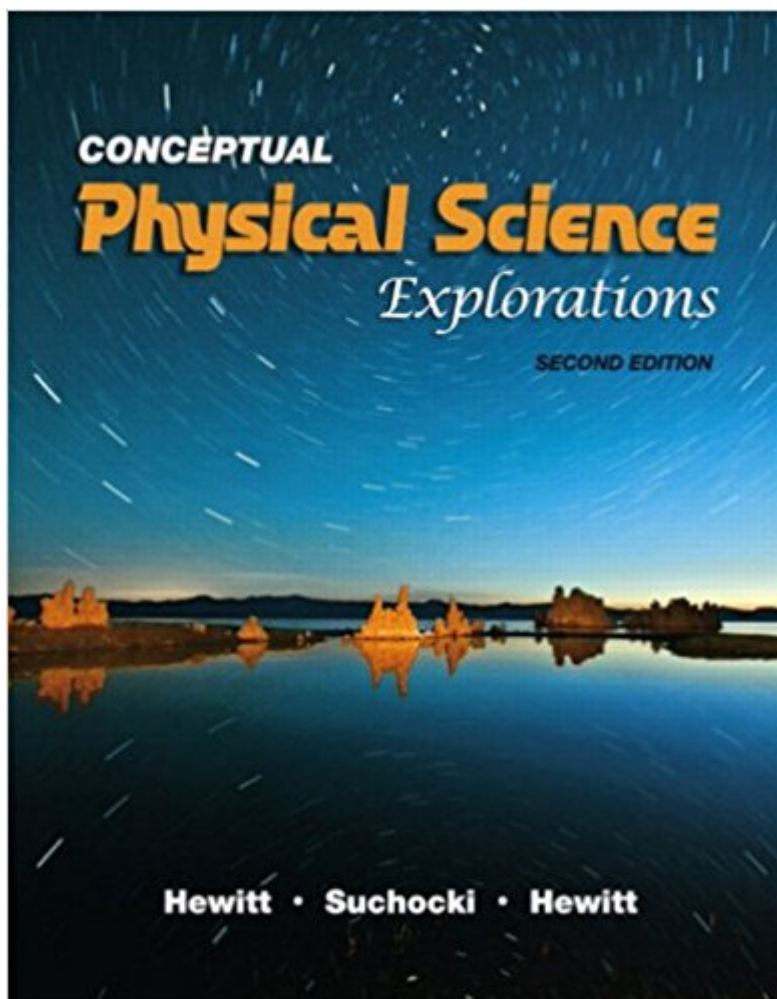


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# Conceptual Physical Science Explorations (2nd Edition)



## Synopsis

Focused on the idea that the rules of the physical world can be taught using a conceptual approach that emphasizes qualitative analysis, the Hewitt team has created a book that is highly readable, flexible, and hands-on. Thirty-four concisely written chapters allow you to better select topics to match your course and the needs of your readers in a one- or two- semester course. *Conceptual Physical Science Explorations, Second Edition* presents a clear and engaging introduction to physics, chemistry, astronomy, and earth sciences. The authors use analogies and everyday examples to clarify key concepts and help readers better understand the world around them. The book's consistent, high-quality coverage stimulates active learning with critical thinking exercises, hands-on experiments, review questions, and quantitative problems.

*Conceptual Physical Science Explorations* is less rigorous in coverage and written more simply than *Conceptual Physical Science, Fourth Edition*, and directed primarily to college courses where readers are less well prepared, and in some cases, remedial. The Second Edition features updated content, new Chapter Opening statements, and more. About Science, Newton's First Law of Motion - Inertia, Newton's Second Law of Motion - Force and Acceleration, Newton's Third Law of Motion - Action and Reaction, Momentum, Energy, Gravity, Fluid Mechanics, Heat, Electricity, Magnetism, Waves and Sound, Light and Color, Properties of Light, The Atom, Nuclear Energy, Elements of Chemistry, How Atoms Bond and Molecules Attract, How Chemicals Mix, How Chemicals React, Two Types of Chemical Reactions, Organic Compounds, The Chemistry of Drugs, Nutrition, Rocks and Minerals, Earth's Interior, Plate Tectonics, Earth's Surface Features, Earth History Over Time, Oceans and Atmosphere, Driving Forces of Weather, The Solar System, Stars and Galaxies, The Structure of Space and Time. Intended for those interested in learning the basics of conceptual physical science.

## Book Information

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## Customer Reviews

Focused on the idea that the rules of the physical world can be taught using a conceptual approach that emphasizes qualitative analysis, the Hewitt team has created a book that is highly readable, flexible, and hands-on. Thirty-four concisely written chapters allow you to better select topics to match your course and the needs of your readers in a one- or two- semester course. "Conceptual Physical Science Explorations, "Second Edition presents a clear and engaging introduction to physics, chemistry, astronomy, and earth sciences. The authors use analogies and everyday examples to clarify key concepts and help readers better understand the world around them. The book's consistent, high-quality coverage stimulates active learning with critical thinking exercises, hands-on experiments, review questions, and quantitative problems. "Conceptual Physical Science Explorations "is less rigorous in coverage and written more simply than "Conceptual Physical Science, " Fourth Edition, and directed primarily to college courses where readers are less well prepared, and in some cases, remedial. The Second Edition features updated content, new Chapter Opening statements, and more. About Science, Newton's First Law of Motion - Inertia, Newton's Second Law of Motion - Force and Acceleration, Newton's Third Law of Motion - Action and Reaction, Momentum, Energy, Gravity, Fluid Mechanics, Heat, Electricity, Magnetism, Waves and Sound, Light and Color, Properties of Light, The Atom, Nuclear Energy, Elements of Chemistry, How Atoms Bond and Molecules Attract, How Chemicals Mix, How Chemicals React, Two Types of Chemical Reactions, Organic Compounds, The Chemistry of Drugs, Nutrition, Rocks and Minerals, Earth's Interior, Plate Tectonics, Earth's Surface Features, Earth History Over Time, Oceans and Atmosphere, Driving Forces of Weather, The Solar System, Stars and Galaxies, The Structure of Space and Time. Intended for those interested in learning the basics of conceptual physical science.

Paul G. Hewitt - Former silver-medal boxing champion, sign painter, uranium prospector, and soldier, Paul began college at the age of 27, with the help of the GI Bill. He pioneered the conceptual approach to teaching physics at the City College of San Francisco. He has taught as a guest teacher at various middle schools and high schools, the University of California at both the

Berkeley and Santa Cruz campuses, and the University of Hawaii at both the Manoa and Hilo campuses. He also taught for 20 years at the Exploratorium in San Francisco, which honored him with its Outstanding Educator Award in 2000. He is the author of *Conceptual Physics* and a co-author of *Conceptual Physical Science* and *Conceptual Physical Science Explorations* (with John and Leslie).

John A. Suchocki is the author of *Conceptual Chemistry* as well as a co-author (with Paul and Leslie Hewitt) of *Conceptual Physical Science* and *Conceptual Physical Science Explorations*. John obtained his Ph.D. in organic chemistry from Virginia Commonwealth University. He taught chemistry at the University of Hawaii at Manoa and then at the Leeward Community College. In addition to authoring textbooks, John is currently an adjunct faculty member at Saint Michael's College in Colchester, Vermont. He also produces science education multimedia through his company, Conceptual Productions ([www.CPro.cc](http://www.CPro.cc)) and writes and illustrates science-oriented children's books.

Leslie A. Hewitt is also coauthor of *Conceptual Physical Science* and *Conceptual Physical Science Explorations* (with Paul and John). After obtaining her geology degree at San Francisco State University, Leslie's interest in teaching broadened to include educating elementary and middle school students. She completed additional graduate work in geography and education, receiving her California State Teaching Certification, also from San Francisco State University. In addition to writing, she devotes considerable time and energy to bringing science education to young people in engaging ways. She is particularly active in her local school district where she works on curriculum development and hands-on science, organizes interactive science fairs, guest teaches, and works with students on connections between scientific concepts and life in the every day world.

I purchased this student book and the Companion Teacher's Edition for my 8th grader who is home-schooled. He takes his class with a certified teacher one day per week at an establishment for home schooled children, and is given his assignments, which we carry out the rest of the week. I couldn't live without this book for myself and the Teacher Edition to go along with it. Not to mention the education I am getting. I of course had Physical Science in school, but it's even more fun the second time around. This book is a great read, even if you're not home schooling. The whys and hows of the way our physical world works is fascinating to learn or be reminded of. We take it all for granted.

Great

Book is good has many examples and it is informative and it helps you figure out some experiments but lacks clearness in some parts.

great

Excellent

I can't say enough wonderful things about this text book. We have used it this year with our 2 7th grade boys. It is a challenging for a middle schooler, but good for kids who like science.

purchased for school. received in good condition and as planned. Great customer service and no problems at all, thank you!

Has been perfect for the Physics class, and a lot more affordable for someone trying to put himself through college.

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