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the 'what to teach' and the 'how to teach it', creating an invaluable resource which contains not only a thorough explanation of physics, but also the applied pedagogy to ensure its effective translation to students in the classroom. Including a wide range of teaching strategies, archetypal assessment questions and model answers, the book tackles misconceptions and offers succinct and simple explanations of complex topics. Each of the five big ideas in physics are covered in detail: electricity forces energy particles the universe. Aimed at new and trainee physics teachers, particularly non-specialists, this book provides the knowledge and skills you need to teach physics successfully at secondary level, and will inject new life into your physics teaching.

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Original publication and copyright date: 2009.

This book is an invaluable resource for physics teachers. It contains an updated version of the author's *A Guide to Introductory Physics Teaching* (1990), *Homework and Test Questions* (1994), and a previously unpublished monograph "Introduction to Classical Conservation Laws".

Explains the principles of relativity, profiling leading minds such as Albert Einstein, Brian Greene, and Stephen Hawking to simplify their theories on time dilation, extra dimensions, and relative motion.

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This is a handbook containing all the advice and recommendations about learning physics I wished someone had told me when I was younger. It is neither a career guide nor a comprehensive textbook. What's inside? - Understand why self-learning is an effective strategy. Learn why most university students never develop a deep understanding and what alternatives are possible. - Grasp the internal structure of physics. Learn how the fundamental theories of physics are connected and why physics works at all. - Develop an understanding of the landscape. Read bird's eye overviews that give a first taste of what the various theories of physics are all about. - Everything you need to get started. Read detailed reading and learning recommendations that allow you to carve out a personal learning path.



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TEACHING PHYSICS is a book about learning to be a more effective physics teacher. It is meant for anyone who is interested in learning about recent developments in physics education. It is not a review of specific topics in physics with hints for how to teach them and lists of common student difficulties. Rather, it is a handbook with a variety of tools for improving both teaching and learning of physics from new kinds of homework and exam problems, to surveys for figuring out what has happened in your class, to tools for taking and analyzing data using computers and video. TEACHING PHYSICS includes: an introduction to the cognitive model of thinking and learning that underlies modern physics education research principles and guidelines

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for making use of and understanding the implications of this cognitive model for the classroom a discussion of formative and summative evaluation with a variety of "thinking problems" useful for homework and exams a discussion of assessment of the success of instruction using research-based concept and attitude surveys discussion of 11 research-based curricular materials for use in lecture, lab, recitation, and workshops environments tips and guidelines for how to improve your instruction In addition, the book comes with a Resource CD containing 14 conceptual and 3 attitude surveys, more than 250 thinking problems covering all areas of introductory physics, resource materials from commercial vendors on use of computerized data acquisition and video, and a variety of other useful reference materials. TEACHING

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PHYSICS is a companion guide to using the Physics Suite, an integrated collection of research-based instructional material for lecture, laboratory, recitation, and workshop/studio environments. The elements of the Suite share the underlying philosophy of education described in this book.

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