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appropriate as a supplemental text for conceptual recitation tutorial sections of introductory undergraduate physics courses this landmark book presents a series of physics tutorials designed by a leading physics education researcher emphasizing the development of concepts and scientific reasoning skill the tutorials focus on the specific conceptual and reasoning difficulties that students tend to find the most difficult this is a preliminary version offering tutorials for a range of topics is mechanics e m waves optics the complete tutorials will be published in 1999

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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version of the author s a guide to introductory physics teaching 1990 homework and test questions 1994 and a previously unpublished monograph introduction to classical conservation laws

a guide to teaching introductory physics from high school to calculus based college courses this instructional tool presents systematic observations based upon research into how physics students come to learn and understand physical concepts models and lines of reasoning includes many examples of test questions and homework problems

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