



Peer Instruction: A User's Manual

By Eric Mazur

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Peer Instruction: A User's Manual is a step-by-step guide for instructors on how to plan and implement Peer Instruction lectures. The teaching methodology is applicable to a variety of introductory science courses (including biology and chemistry). However, the additional material—class-tested, ready-to-use resources, in print and on CD-ROM (so professors can reproduce them as handouts or transparencies)—is intended for calculus-based physics courses.

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Peer Instruction: A User's Manual By Eric Mazur Bibliography

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Editorial Review

From the Publisher

Peer Instruction is an interactive teaching style that actively involves students in the learning process by focusing attention on underlying concepts through interactive "ConcepTests", reading quizzes, and conceptual exam questions. Results, assessed through scores on the Force Concept Inventory and final exams, show that students better understand concepts and perform better on conventional problems in this environment. It can be easily adapted to fit individual lecture styles and used with any textbook. Eric Mazur's Peer Instruction approach has been successfully field-tested in a variety of settings, most of them quite different from his home campus at Harvard University (e.g., University of Massachusetts--Lowell and Appalachian State University).

From the Back Cover

Presents an entirely new approach to introductory physics within a calculus-based conceptual and a mathematical framework. It offers an approach to presenting the material that is more gradual than existing books on the subject. "Peer Instruction: A User's Manual" develops the full conceptual framework of each chapter within the first section of that chapter while addressing questions common to that topic. The material in this section concentrates on the underlying ideas and paints the big picture, whenever possible without equations. The second part of each chapter then develops the rigorous mathematical framework linked to the material presented in the first part. Each chapter also includes a short set of qualitative, conceptual questions at the end of the first section designed to strengthen the focus on the conceptual framework and facilitate understanding of the mathematical framework. The book is written in a lively, engaging style that anticipates the questions readers will have, articulates them, and answers them in a direct dialogue with the reader. **MARKETS:** A valuable reference book for anyone desiring an understanding of physics as it relates to engineering and science.

Users Review

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David Anthony:

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