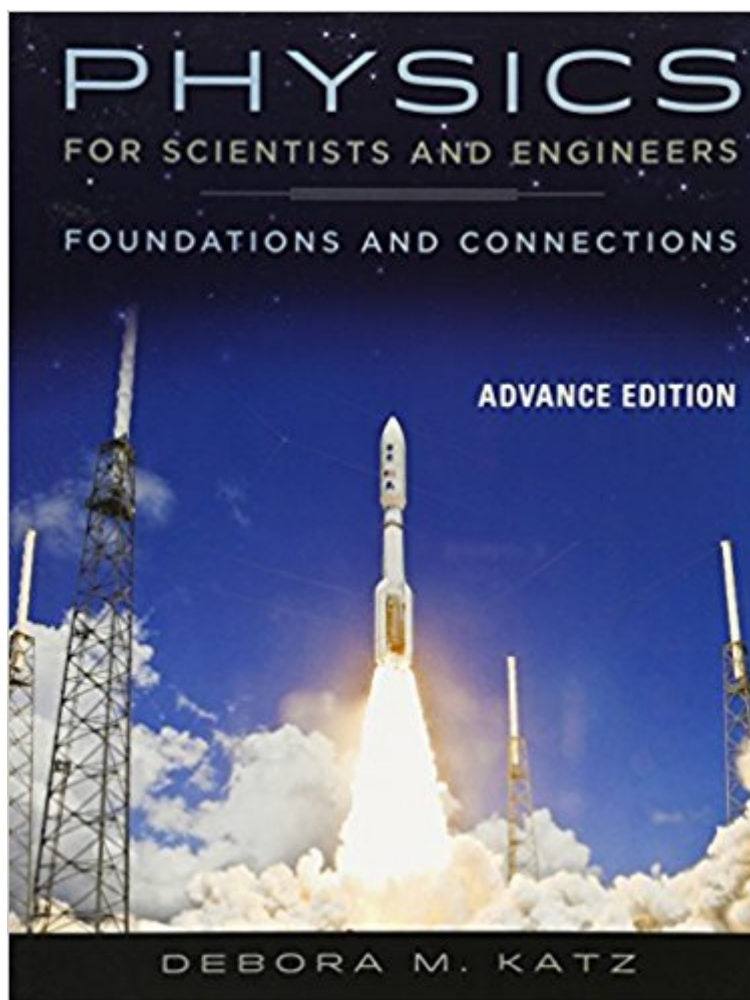


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## Synopsis

Debora Katz's ground-breaking calculus-based physics program, PHYSICS FOR SCIENTISTS AND ENGINEERS: FOUNDATIONS AND CONNECTIONS, features a one-of-a-kind approach that enables students to connect mathematical formalism and physics concepts in a modern, interactive way. By leveraging physics education research (PER) best practices and her extensive classroom experience, Dr. Katz addresses the areas students struggle with most: linking physics to the real world, overcoming common preconceptions, and connecting the concept being taught to the mathematical steps to follow. Case studies, student dialogues, and detailed two-column examples distinguish this text from any other on the market and will assist you in taking your students "beyond the quantitative."

## Book Information

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## Customer Reviews

Katz earned her PhD in Astrophysics from University of Minnesota, one of the top PER programs in the country. She has been active in the PER community and has attended multiple conferences to learn how to better integrate innovative pedagogies into the classroom. She has effectively done so in a very traditional environment at the Naval Academy, where she is a tenured professor. She is an active researcher who regularly works with undergraduate students.

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