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Exploring Relativity: A Workbook for Undergraduate Students (Undergraduate Lecture Notes in Physics)

Dunan Lorimer

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Einstein's special and general theories of relativity are explored graphically and quantitatively using elementary algebra through a series of fifteen interactive lectures designed for undergraduate physics majors. Topics covered include: space-time diagrams, special relativity, the equivalence principle, general relativity, and black holes.

The goal of this book is to provide the student with a sound, conceptual understanding of both the special and the general theories of relativity, so the student will gain insight into how astrophysicists are using these theories to study black holes in the universe. At the end of each chapter, there is a set of exercises to further facilitate the student's understanding of the material.

The ultimate goal of the book is for students to continue to use it as a preferred reference during and after their undergraduate career.

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