



Gravitation

Charles W. Misner, Kip S. Thorne, John Archibald Wheeler

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This landmark text offers a rigorous full-year graduate level course on gravitation physics, teaching students to:

- Grasp the laws of physics in flat spacetime
- Predict orders of magnitude
- Calculate using the principal tools of modern geometry
- Predict all levels of precision
- Understand Einstein's geometric framework for physics
- Explore applications, including pulsars and neutron stars, cosmology, the Schwarzschild geometry and gravitational collapse, and gravitational waves
- Probe experimental tests of Einstein's theory
- Tackle advanced topics such as superspace and quantum geometrodynamics

The book offers a unique, alternating two-track pathway through the subject:

- In many chapters, material focusing on basic physical ideas is designated as

Track 1. These sections together make an appropriate one-term advanced/graduate level course (mathematical prerequisites: vector analysis and simple partial-differential equations). The book is printed to make it easy for readers to identify these sections.

- The remaining **Track 2** material provides a wealth of advanced topics instructors can draw from to flesh out a two-term course, with Track 1 sections serving as prerequisites.

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