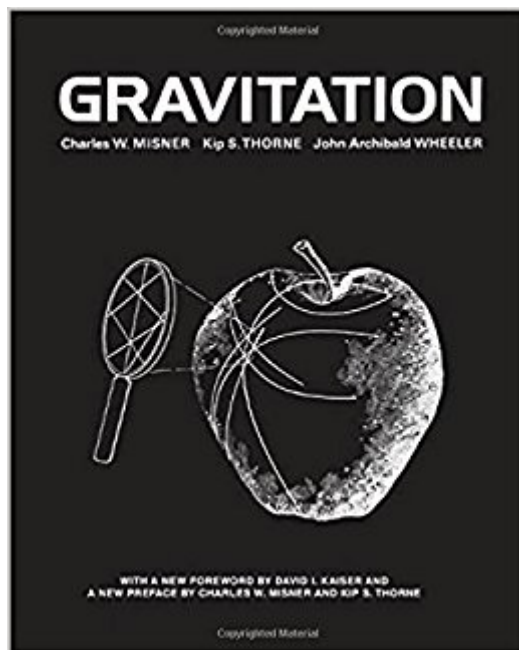


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Gravitation



Synopsis

First published in 1973, *Gravitation* is a landmark graduate-level textbook that presents Einstein's general theory of relativity and offers a rigorous, full-year course on the physics of gravitation. Upon publication, *Science* called it "a pedagogic masterpiece" and it has since become a classic, considered essential reading for every serious student and researcher in the field of relativity. This authoritative text has shaped the research of generations of physicists and astronomers, and the book continues to influence the way experts think about the subject. With an emphasis on geometric interpretation, this masterful and comprehensive book introduces the theory of relativity; describes physical applications, from stars to black holes and gravitational waves; and portrays the field's frontiers. The book also offers a unique, alternating, two-track pathway through the subject. Material focusing on basic physical ideas is designated as Track 1 and formulates an appropriate one-semester graduate-level course. The remaining Track 2 material provides a wealth of advanced topics instructors can draw on for a two-semester course, with Track 1 sections serving as prerequisites. This must-have reference for students and scholars of relativity includes a new preface by David Kaiser, reflecting on the history of the book's publication and reception, and a new introduction by Charles Misner and Kip Thorne, discussing exciting developments in the field since the book's original publication. The book teaches students to:

- Grasp the laws of physics in flat and curved spacetime
- Predict orders of magnitude
- Calculate using the principal tools of modern geometry
- Understand Einstein's geometric framework for physics
- Explore applications, including neutron stars, Schwarzschild and Kerr black holes, gravitational collapse, gravitational waves, cosmology, and so much more

Book Information

Hardcover: 1280 pages

Publisher: Princeton University Press (October 17, 2017)

Language: English

ISBN-10: 0691177791

ISBN-13: 978-0691177793

Product Dimensions: 8 x 0.6 x 10 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 57 customer reviews

Best Sellers Rank: #29,407 in Books (See Top 100 in Books) #8 in Books > Science & Math > Physics > Gravity #54 in Books > Science & Math > Astronomy & Space Science >

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"Gravitation has been a very influential book in the field, and it gives a remarkably thorough treatment of what's relevant in general relativity today."--Frans Pretorius, Princeton University
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Charles W. Misner is professor emeritus of physics at the University of Maryland. Kip S. Thorne is the Feynman Professor of Theoretical Physics, Emeritus at the California Institute of Technology. His books include Modern Classical Physics(Princeton), Black Holes and Time Warps, and The Science of Interstellar. John Archibald Wheeler (1911–2008) was professor of physics at Princeton University and later at the University of Texas, Austin. His books include Spacetime Physics and Geons, Black Holes, and Quantum Foam.

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