

Black Holes, White Dwarfs and Neutron Stars: The Physics of Compact Objects

By Stuart L. Shapiro, Saul A. Teukolsky

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Editorial Review

From the Publisher
This self-contained textbook brings together many different branches of physics--e.g. nuclear physics, solid state physics, particle physics, hydrodynamics, relativity--to analyze compact objects. The latest astronomical data is assessed. Over 250 exercises.

From the Back Cover
Black holes, White Dwarfs, and Neutron Stars The physics of Compact Objects Compact objects-black holes, white dwarfs, and neutron stars-are fundamental constituents of the physical universe. They are born when normal stars die. This book is a product of the recent explosion of scientific activity centering on these objects. This self-contained work is a rigorous, yet understandable, references on the latest theoretical and observational developments. It is at once an outstanding text for graduate and advanced undergraduate students in physics, and a practical self-study guide for scientists in other disciplines and scientifically-oriented laypersons. No prior knowledge of astrophysics or relativity theory is required. Compact objects provide unique cosmic laboratories for testing physics and astrophysics under extreme conditions. They interact via all four of the fundamental forces of nature: electromagnetism, strong and weak nuclear forces, and gravitation. As a result, the book brings together topics from such diverse areas as solid state physics, nuclear and particle physics, relativity and hydrodynamics. In the text, the authors first analyze the physical properties of compact objects in their simplest states. Next, they investigate the effects of rotation, magnetic fields, X-ray and neutrino emission, the generation of gravitational waves, and so on. The theory is assessed in light of the most recent observational data. Numerous practical features to make teaching and learning easier include:
* a road map for using the book effectively
* over 250 exercises, including several small-scale computer problems
* extensive references
* boxes summarizing major points
* carefully constructed and attractive tables and illustrations.
Dr. Stuart L. Shapiro and Dr. Saul A. Teukolsky are both Professors of Physics and Astronomy at Cornell University.

Users Review

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