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OHANIAN PHYSICS

SECOND EDITION EXPANDED

Study Guide

OHANIAN



PRINCIPLES OF
PHYSICS

Van E. Nele

The third edition of this classic textbook is a quantitative introduction for advanced undergraduates and graduate students. It gently guides students from Newton's gravitational theory to special relativity, then to the approximate linearized relativistic theory of gravitation, and finally to the full nonlinear theory of general relativity. This book views general relativity from several perspectives: as a theory constructed by analogy with Maxwell's electrodynamics, as a relativistic generalization of Newton's theory, and as a theory of curved spacetime. The authors provide a concise overview of the important concepts and formulas, coupled with the experimental results underpinning the latest research in the field. Numerous exercises scattered throughout the chapters help students master essential concepts for advanced work in general relativity, and give them practice in the mathematics needed, while abundant spacetime diagrams encourage them to think in terms of four-dimensional spacetime geometry. Featuring comprehensive reviews of recent experimental and observational data, the text concludes with chapters on current developments in cosmology and the physics of the Big Bang and inflation.

HANS C. OHANIAN received his BS from the University of California, Berkeley, and his PhD from Princeton University, where he worked with John A. Wheeler. He has taught at Rensselaer Polytechnic Institute, Union College, the University of Vermont, and in summer courses at UNED in Spain. He has published several textbooks in addition to *Gravitation and Spacetime*, including *Classical Electrodynamics*, *Principles of Quantum Mechanics*, and *Special Relativity: A Modern Introduction*, as well as articles on various aspects of relativity and quantum theory.

REMO RUFFINI is the Chair of Theoretical Physics at the University of Rome, where he received his PhD, and has also taught at Princeton University. He is cofounder with Abdus Salam of the Marcell Grossmann meetings and has acted as an adviser to NASA and the Italian Space Agency. He introduced with John A. Wheeler in 1971 the concept of a black hole, and his published works include *Cosmology from Space Platforms*, *Black Holes*, *Gravitational Waves and Cosmology*, *Basic Concepts in Relativistic Astrophysics*, *Gamow Cosmology*, and a large number of articles and edited volumes.



FRONT COVER: A disk of cold gas and dust encircles a possible supermassive black hole at the core of the galaxy NGC 4261. Courtesy of Walter Jaffe/Leiden Observatory, Holland Ford/JHU/STScI, and NASA.

BACK COVER: A horseshoe-shaped Einstein Ring, where the light from a distant blue galaxy has been gravitationally distorted by the closer luminous red galaxy (LRG 3-757). Courtesy of ESA/Hubble and NASA.

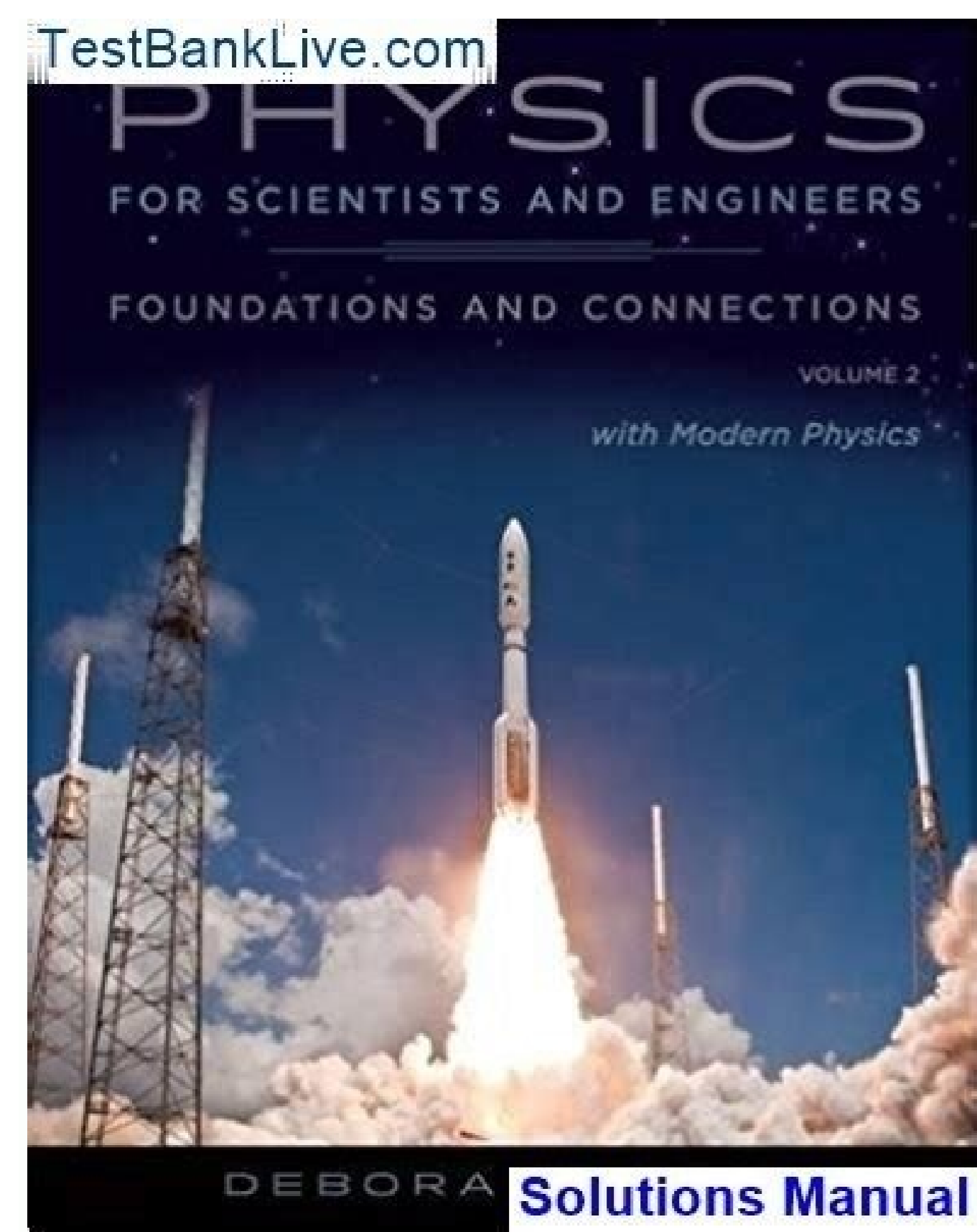
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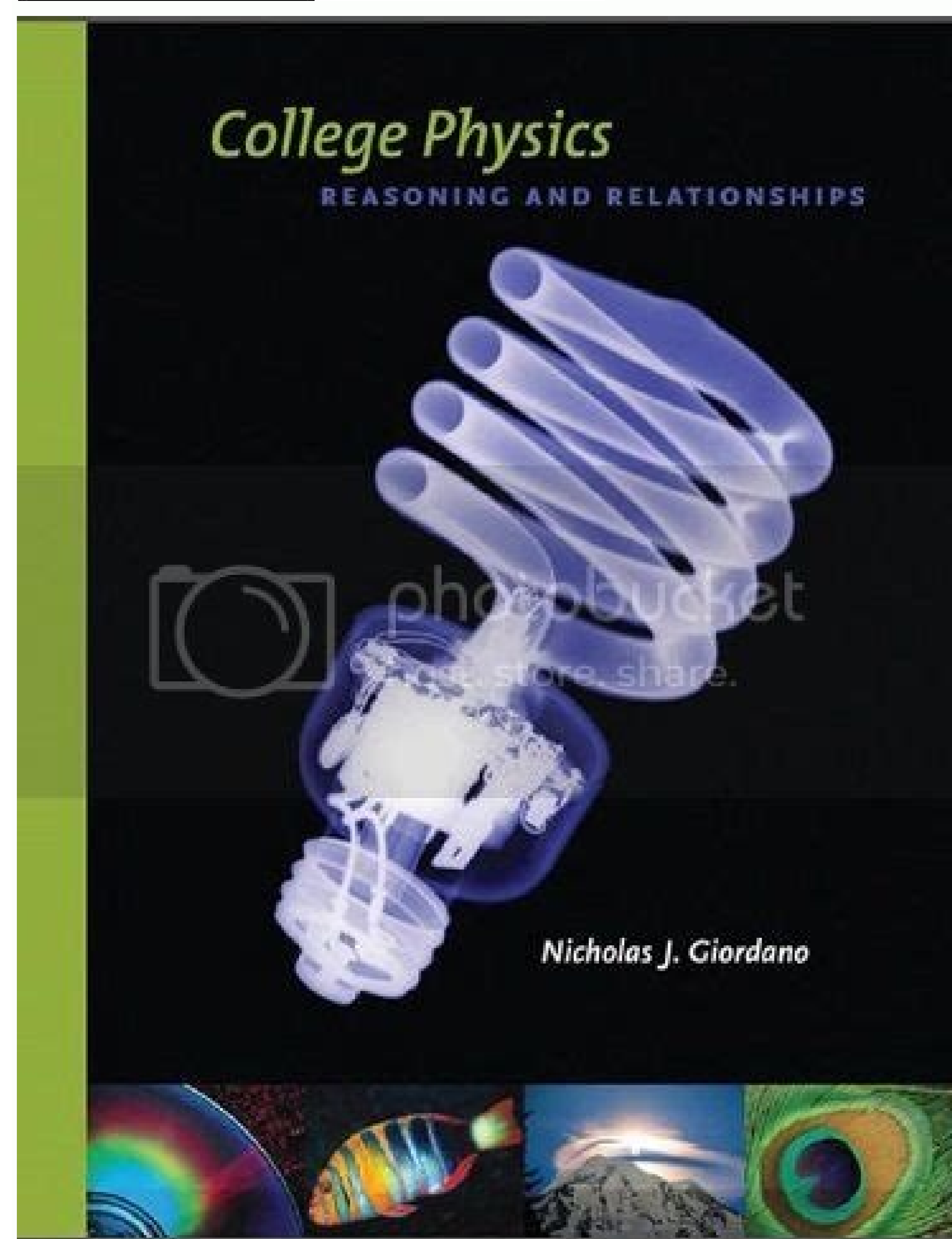
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