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Modern Astrophysics

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Bradley W. Carroll • Dale A. Ostriker

Introductory Astronomy Astrophysics Solutions Manual

Mike Guidry



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An Introduction to Modern Astrophysics Bradley W. Carroll, Dale A. Ostlie, 2017-09-07 A comprehensive and engaging textbook covering the entire astrophysics curriculum in one volume *Introductory Astronomy and Astrophysics* Michael Zeilik, Stephen A. Gregory, Elske van Panhuys Smith, 1992 *Astronomy Methods* Hale Bradt, 2004 *Astronomy Methods* is an introduction to the basic practical tools methods and phenomena that underlie quantitative astronomy Taking a technical approach the author covers a rich diversity of topics across all branches of astronomy from radio to gamma ray wavelengths Topics include the quantitative aspects of the electromagnetic spectrum atmospheric and interstellar absorption telescopes in all wavebands interferometry adaptive optics the transport of radiation through matter to form spectral lines and neutrino and gravitational wave astronomy Clear systematic presentations of the topics are accompanied by diagrams and problem sets Written for undergraduates and graduate students this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics

Introductory Astronomy & Astrophysics Michael Zeilik, Stephen A. Gregory, 1998 This advanced undergraduate text provides broad coverage of astronomy and astrophysics with a strong emphasis on physics It has an algebra and trigonometry prerequisite but calculus is preferred

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Instructor's Manual to Accompany The Dynamic Universe: an Introduction to Astronomy, Third Edition, Theodore P. Snow Stephen J. Shawl, 1988 **Books in Print Supplement**, 2002 **Subject Guide to Books in Print**, 1991 *General Relativity* M. P. Hobson, G. P. Efstathiou, A. N.

Lasenby, 2006-02-02 *General Relativity An Introduction for Physicists* provides a clear mathematical introduction to Einstein's theory of general relativity It presents a wide range of applications of the theory concentrating on its physical consequences After reviewing the basic concepts the authors present a clear and intuitive discussion of the mathematical background

including the necessary tools of tensor calculus and differential geometry. These tools are then used to develop the topic of special relativity and to discuss electromagnetism in Minkowski spacetime. Gravitation as spacetime curvature is then introduced and the field equations of general relativity derived. After applying the theory to a wide range of physical situations, the book concludes with a brief discussion of classical field theory and the derivation of general relativity from a variational principle. Written for advanced undergraduate and graduate students, this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text.

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