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Introduction to Astrophysics II. Spring 1999. Prof. Steven T. Myers. T Th 12pm-1:30pm DRL A7. Last update: 6 May 1999. Text: Introductory Astronomy & Astrophysics(Fourth Edition) by Zeilik and Gregory (ZG4) Index to Lecture Notes: Lecture 1 - Stars, Galaxies and the Universe(1/12/99) Lecture 2 - The Local Distance Ladder(1/14/99)

Spring 1999 - National Radio Astronomy Observatory

Introductory Astronomy and Astrophysics, by M. Zeilik, S. Gregory and E. Smith (ZGS) International Thompson Publishing. The Physical Universe: An Introduction to Astronomy, by Frank H. Shu, University Science Books (Shu) Intelligent Life in The Universe, by H. Ulmschneider, Springer-Verlag

ASTROPHYSICS 205 - Princeton University

Introductory Astronomy and Astrophysics (Saunders golden sunburst series) Michael Zeilik; Stephen A. Gregory; Elske V. Smith Published by Harcourt School (1992)

Introductory Astronomy and Astrophysics by Zeilik Michael ...

Introductory Astronomy and Astrophysics / Edition 4. by Stephen A. Gregory, Michael Zeilik. Stephen A. Gregory.

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Zeilik, Michael, and Stephen A. Gregory. Introductory Astronomy and Astrophysics. 4th ed. Fort Worth, TX: Saunders College Publishing, 1997. ISBN: 9780030062285.

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interfering with the flow of the core content. This book is designed to cover the most important aspects of stellar astrophysics inside a one semester (or half-year) course and as such is relevant for advanced undergraduate students following a first course on stellar astrophysics, in physics or astronomy programs. It will also serve as a basic reference for a full-year course as well as for researchers working in related fields.

Intended for undergraduate non-science majors, satisfying a general education requirement or seeking an elective in natural science, this is a physics text, but with the emphasis on topics and applications in astronomy. The perspective is thus different from most undergraduate astronomy courses: rather than discussing what is known about the heavens, this text develops the principles of physics so as to illuminate what we see in the heavens. The fundamental principles governing the behaviour of matter and energy are thus used to study the solar system, the structure and evolution of stars, and the early universe. The first part of the book develops Newtonian mechanics towards an understanding of celestial mechanics, while chapters on electromagnetism and elementary quantum theory lay the foundation of the modern theory of the structure of matter and the role of radiation in the constitution of stars. Kinetic theory and nuclear physics provide the basis for a discussion of stellar structure and evolution, and an examination of red shifts and other observational data provide a basis for discussions of cosmology and cosmogony.

This invaluable book, now in its second edition, covers a wide range of topics appropriate for both undergraduate and postgraduate courses in astrophysics. The book conveys a deep and coherent understanding of the stellar phenomena, and basic astrophysics of stars, galaxies, clusters of galaxies and other heavenly bodies of interest. Since the first appearance of the book in 1997, significant progress has been made in different branches of Astronomy and Astrophysics. The second edition takes into account the developments of the subject which have taken place in the last decade. It discusses the latest introduction of L and T dwarfs in the Hertzsprung-Russel diagram (or H-R diagram). Other developments discussed pertain to standard solar model, solar neutrino puzzle, cosmic microwave background radiation, Drake equation, dwarf galaxies, ultra compact dwarf galaxies, compact groups and cluster of galaxies. Problems at the end of each chapter motivate the students to go deeper into the topics. Suggested readings at the end of each chapter have been complemented.

This book is designed for upper division courses in astronomy and as a reference for science professionals. The subject areas of astronomy and astrophysics have grown tremendously during the last few decades. New developments in radio astronomy and recent data retrieved from NASAs Hubble Space Telescope have resulted in many discoveries and created new interest in the study of the universe. Using four-color throughout, Astronomy & Astrophysics describes the different techniques and instruments employed in the study of the universe and the results obtained with discussion on both theory and observation. The book covers topics such as, minor planets, radio astronomy, astronomical telescopes, measurement of solar brightness distribution, black holes, and the Einstein effect. A CD-ROM with color figures and simulations accompanies the book.