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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)

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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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The ninth edition of this successful textbook describes the full range of the astronomical universe and how astronomers think about the cosmos.

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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.

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.

The student supplement to the successful textbook describing the full range of the astronomical universe.

Astronomy is the field of science devoted to the study of astronomical objects, such as stars, galaxies, and nebulae. Astronomers have gathered a wealth of knowledge about the universe through hundreds of years of painstaking observations. These observations are interpreted by the use of physical and chemical laws familiar to mankind. These interpr

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.