

## Chapter 25 Beyond Our Solar System

## Section 25.3 The Universe

This section describes the Milky Way galaxy and types of galaxies. It also explains how we know the universe is expanding, how the universe probably began, and how it might end.

## Reading Strategy

As you read, complete the outlines of the most important ideas in this section. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

## I. The Universe

## A. Milky Way galaxy

1. \_\_\_\_\_
2. \_\_\_\_\_

## B. \_\_\_\_\_

1. Spiral galaxy \_\_\_\_\_
2. Elliptical galaxy \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

5. Also, \_\_\_\_\_ is a large group of stars, dust, and gases held together by gravity.

## The Milky Way Galaxy

2. Why is it difficult to study the Milky Way Galaxy, using optical telescopes?

3. (R) Circle the letter of the type of galaxy that the Milky Way is.
- a. spiral galaxy
  - b. elliptical galaxy
  - c. irregular galaxy
  - d. cluster galaxy

## Types of Galaxies

Match each description with its galaxy.

	Description	Galaxy
_____	A. ranges in shape from round to oval, round are round	a. spiral
_____	B. (R) compressed mostly of young stars	b. elliptical
_____	C. usually disk-shaped with many variations	c. irregular

## Section 25 3 The Universe Answers

**Greg Volk**



## Section 25 3 The Universe Answers:

**Universe: The Solar System** Roger Freedman, Robert Geller, William J. Kaufmann, 2010-01-06 Universe When it comes to staying current with latest discoveries clearing away common misconceptions and harnessing the power of media in the service of students and instructors no other full length introduction to astronomy can match it Now the textbook that has evolved discovery by discovery with the science of astronomy and education technology for over two decades returns in spectacular new edition thoroughly updated and offering unprecedented media options Available in Split Volumes Universe Stars and Galaxies Fourth Edition 1 4292 4015 6 Universe The Solar System Fourth Edition 1 4292 4016 4      **Relativistic Astrophysics and Cosmology** Peter Hoyng, 2006-07-07 This textbook offers a succinct and self contained introduction into general relativity and its main areas of application compact objects gravitational waves and cosmology Pref      **An Introduction to Cosmology** J. V. Narlikar, 2002-01-10 Publisher Description      *Theory Of The Quantum World, The - Proceedings Of The 25th Solvay Conference On Physics* David J Gross, Alexander Sevrin, Marc Henneaux, 2013-03-25 Ever since 1911 the Solvay Conferences have shaped modern physics The 25th edition held in October 2011 in Brussels and chaired by David Gross continued this tradition and celebrated the first centennial of this illustrious series of conferences The development and applications of quantum mechanics have always been the main threads in the history of the Solvay Conferences hence the 25th Solvay conference gathered many of the leading figures working on a wide variety of profound problems in physics where quantum mechanical effects play a central role The conference addressed some of the most pressing open questions in the field of physics The proceedings contain the rapporteur talks which give a broad overview with unique insights by distinguished and renowned scientists These lectures cover the seven sessions History and Reflections Foundations of Quantum Mechanics and Quantum Computation Control of Quantum Systems Quantum Condensed Matter Particles and Fields Quantum Gravity and String Theory and it ended with a general discussion attempting to arrive at a synthesis In the Solvay tradition the proceedings also include the prepared comments to the rapporteur talks The discussions among the participants some of which quite lively and involving dramatically divergent points of view have been carefully edited and are reproduced in full      Inflationary Cosmology L. F. Abbott, S.-Y. Pi, 1986 Inflation has revolutionized cosmology primarily because it has eliminated the dependence of cosmological modelling on initial conditions Thus inflationary cosmology is able to account for the present universe starting from a wide range of initial conditions This volume reviews the presents state of subject Each chapter consists of a brief introduction followed by reprints of important papers Experts in the field are also provided with a unifying view point      **Logics in Artificial Intelligence** Steffen Hölldobler, Carsten Lutz, Heinrich Wansing, 2008-09-19 This book constitutes the refereed proceedings of the 11th European Conference on Logics in Artificial Intelligence JELIA 2008 held in Dresden Germany Liverpool in September October 2008 The 32 revised full papers presented together with 2 invited talks were carefully reviewed and selected from

98 submissions The papers cover a broad range of topics including belief revision description logics non monotonic reasoning multi agent systems probabilistic logic and temporal logic      **The Publishers' Circular and Booksellers' Record** ,1909

Nuclear Science Abstracts ,1971      Current Topics In Astrofundamental Physics - 1st Course In The International School Of Astrophysics "D Chalonge" Normalized Sanchez,1992-11-20 This volume provides an updated understanding of the progress and current problems in the interplay between fundamental physics astrophysics and cosmology In the last years the cross section between these fields has been increasing both at the theoretical and experimental levels particle physics experiments astronomical observations space satellite data Such interplay has fruitfully influenced research activity setting up Astrofundamental physics Topics covered in this volume are early universe large scale structure of the universe dark matter problem cosmic microwave background radiation gravitational wave astronomy and neutrino astrophysics The inter relation between these topics is important and a source of problems at the frontiers of present knowledge and experimental limits Latest available data are constraining theory and models in these topics The book reviews achievements confronts theory and models with observations and provides information on the latest developments and discussions on future prospects It also includes a section on stellar spectroscopy and spectrophotometry which covers Daniel Chalonge s work as well as present progress and future prospects in these fields      **The Answer to Nearly Everything** Peter Franklin,2012-02 The only information we have on Atlantis is from a very ancient Egyptian account that describes it as bigger than all their neighbours combined Why is this fact ignored by most of the fanciful theories From Atlantis to our current scientific predictions the truth about so many things becomes clear and obvious only if all the facts are collected and examined yet many people just select those that agree with their thinking The resulting conflict between experience and belief truth and distortion or good and bad is only resolved when science philosophy and theology are harmonized and examined as aspects of one universal truth      The Publisher ,1909      The Illustrated Origins Answer Book Paul Stanley Taylor,1991-03 Concise easy to understand facts about the origin of life man and the cosmos      British Books ,1910      19th Natural Philosophy Alliance Proceedings Greg Volk,2012-07-14 The Natural Philosophy Alliance NPA sponsors regular international conferences for presenting high quality papers discussing aspects of philosophy in the sciences Many papers offer challenges to accepted orthodoxy in the sciences especially in physics Everything from the micro physics of quantum mechanics to the macro physics of cosmology is entertained Though the main interest of the NPA is in challenging orthodoxy in the sciences it will also feature papers defending such orthodoxy Our ultimate propose is to enable participants to articulate their own understanding of the truth All papers are reviewed by society officers and sometimes by other members before presentation in conferences and they are edit sometimes very significantly prior to publication in the Proceedings of the NPA      A *Complete Concordance to Science and Health* Albert Francis Conant,1909      **The New York Times Index** ,1929      Reader's Guide to Periodical Literature Supplement ,1914      Readers' Guide to Periodical Literature Anna Lorraine

Guthrie,1904 An author subject index to selected general interest periodicals of reference value in libraries      **Book**  
**Review Digest** ,1926      **Astronomy: The Human Quest for Understanding** Dale A. Ostlie,2022-09-07 Since humans first looked up at the stars astronomy has had a particular ability to stir the imagination and challenge the thinking of scientists and non scientists alike Astronomy The Human Quest for Understanding is an introductory astronomy textbook specifically designed to relate to non science majors across a wide variety of disciplines nurture their curiosity and develop vital science based critical thinking skills This textbook provides an introduction to how science operates in practice and what makes it so successful in uncovering nature s secrets Given that the study of astronomy dates back thousands of years it is the ideal subject for tracing the development of the physical sciences and how our evolving understanding of nature has influenced and been influenced by mathematics philosophy religion geography politics and more This historical approach also illustrates how wrong turns have been taken and how the inherent self correcting nature of science through constant verification and the falsifiability of truly scientific theories ultimately leads us back to a more productive path in our quest for understanding This approach also points out why as a broadly educated citizenry students of all disciplines must understand how scientists arrive at conclusions and how science and technology have become central features of modern society In discussing this fascinating and beautiful universe of which we are a part it is necessary to illustrate the fundamental role that mathematics plays in decoding nature s mysteries Unlike other similar textbooks some basic mathematics is integrated naturally into the text together with interpretive language and supplemented with numerous examples additional tutorials are provided on the book s companion website Astronomy The Human Quest for Understanding leads the reader down the path to our present day understanding of our Solar System stars galaxies and the beginning and evolution of our universe along with profound questions still to be answered in this ancient yet rapidly changing field

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