

Jupiter The Giant Planet

Jupiter-Susan Ring 2020-08 The fifth planet from the Sun, Jupiter is the largest planet in the solar system. Jupiter is a giant planet made up of swirling gases and powerful winds. Learn these facts and more in Jupiter, an Exploring Our Solar System book.

JUPITER 2E-BEEBE R 1994-09-17 In this book, Reta Beebe provides a full introduction to the jovian system, describing the planet's atmosphere, winds, and the swirling clouds, such as the Great Red Spot, that they create. She discusses models of the interior of the planet, the differences between its satellites (or moons), its equatorial rings of debris, and its magnetosphere: the interactive region around the planet created by its magnetic field. Considered a substellar companion to the sun - because it radiates more heat than it receives from the sun and has a similar chemical composition - Jupiter is thought to have no solid surface below the visible clouds. Among astronomers, it is seen as a laboratory in which to test theories of planet and star formation. Reviewing the history of discoveries about Jupiter, Beebe shows how our early earthbound knowledge was greatly expanded by the data from the Pioneer and Voyager spacecraft that journeyed past the planet in the 1970s. She also speculates - drawing on the sophisticated models and theorems that underlie all planetary science - on the results of the Galileo Mission (launched in 1989, it is expected to fly by Jupiter in 1995) and discusses the possibly more dramatic July 1994 collision of the Comet Shoemaker-Levy 9, hurtling toward Jupiter at 130,000 miles an hour with a mass of nearly six trillion tons.

The Giant Planet Jupiter-John H. Rogers 1995-07-20 The first full account of Jupiter for 35 years - comprehensive, accessible and highly illustrated.

JUPITER 1E-BEEBE R 1997-01-17 Provides a full introduction to the planet's system, describing the history of discoveries about Jupiter as well as its atmosphere and interior composition.

Jupiter-Francisco W. Welter-Schultes 2000

Jupiter-Susan Ring 2016-05-01 The Our Solar System series takes readers on an exciting journey through space to discover the unique characteristics of each planet. This compelling series explores each planets orbit, life forms, name origin, and physical features, along with a map showing its location in space, a timeline of observation, and comparisons to Earth and the other planets. From rocky planets to dwarf planets and ice giants to gas giants, each book in the series is filled with exciting facts that are sure to keep readers turning the pages. Our Solar System is a series of AV2 media enhanced books. A unique book code printed on page 2 unlocks multimedia content. These books come alive with video, audio, weblinks, slide shows, activities, hands-on experiments, and much more.

Giant Planets of Our Solar System-Patrick Irwin 2006-08-29 This book reviews the current state of knowledge of the atmospheres of the four giant gaseous planets. It is the first book to contain all the latest data and background information on these planets in one handy volume. Current theories of their formation are reviewed. The book clearly explains all specialist terms, and it discusses the pros and cons of ground versus space-based observations of giant planets.

Jupiter-Ellen Lawrence 2013-08 A colorful introduction to the planet Jupiter.

Jupiter-John W. McAnally 2007-12-16 With the increasing sensitivity of the equipment available to the home astronomer, and increasing interest in celestial bodies, this Springer series is a huge helping hand to skywatchers who want to hone their skills. Astronomers' observing guides provide up-to-date information for amateur astronomers who want to know all about what it is they are observing. This is the basis of the first part of the book. The second part details observation techniques for practical astronomers, working with a range of different instruments. The book reviews the latest findings and satellite observations of Jupiter, as well as presenting superb pictures of Jupiter taken by McAnally himself, who proceeds to explain to the reader how to arrive at such beautiful results.

Jupiter, the Giant Planet, is 457,000,000 Miles Distant from the Sun-Tropical Trunk Line 1894

The Outer Planets-Britannica Educational Publishing 2011-05-01 As our ability to observe space improves with ever-progressing technology, we better grasp the farthest reaches of the cosmos and heighten our understanding of the universe in its entirety. Spacecraft exploration of the outermost planets in our solar system[]Jupiter, Saturn, Uranus, and Neptune[]reveals many features of these seemingly harsh environments and moves us closer to comprehending the origins of our own planet as well as others. This insightful volume examines the characteristics of these remote planets and the paths they illuminate in our quest for celestial knowledge.

The Outer Solar System-Britannica Educational Publishing 2009-10-01 Beyond Earth[]s small, red neighbor Mars lie the gaseous, giant planets of the Outer Solar System. This book investigates these behemoths and dwarf planet Pluto, as well as other curiosities within the solar system[]s farthest reaches, such as asteroid fields and the Kuiper belt.

By Jupiter-Eric Burgess 1982 Traces the history of scientific research on the planet Jupiter from the observations of Galileo to the explorations of the Pioneer and Voyager space probes.

Giant Planets of Our Solar System-Patrick Irwin 2009-03-27 This book reviews the current state of knowledge of the atmospheres of the giant gaseous planets: Jupiter, Saturn, Uranus, and Neptune. The current theories of their formation are reviewed and their recently observed temperature, composition and cloud structures are contrasted and compared with simple thermodynamic, radiative transfer and dynamical models. The instruments and techniques that have been used to remotely measure their atmospheric properties are also reviewed, and the likely development of outer planet observations over the next two decades is outlined. This second edition has been extensively updated following the Cassini mission results for Jupiter/Saturn and the newest ground-based measurements for Uranus/Neptune as well as on the latest development in the theories on planet formation.

Jupiter-Abby Young 2005 Presents scientific discoveries about the atmosphere, moons, storms, and environment of this giant planet composed almost entirely of liquid and gas.

Jupiter-Susan Ring 2020-08 The fifth planet from the Sun, Jupiter is the largest planet in the solar system. Jupiter is a giant planet made up of swirling gases and powerful winds. Learn these facts and more in Jupiter, an Exploring Our Solar System book.

Jupiter: Chemical Composition, Structure, and Origin of a Giant Planet-Ernst J. Öpik 1962

Jupiter-Derek Zobel 2012-08-01 Jupiter is the largest planet in the solar system. It is known for its giant spinning storm called the Great Red Spot. Young students will learn all about Jupiter’s discovery, storms, moons, and how this giant planet has been explored.

Jupiter-Ernst Julius Opik 1965

Seven Wonders of the Gas Giants and Their Moons-Ron Miller 2011-02-01 From earliest times, humans have wondered about the sky above them. Simple telescopes in the 1600s made possible descriptions of the wonders of Earth's Moon and the closer planets. It took the development of powerful telescopes and modern space probes to learn more about the more distant planets Jupiter, Saturn, Uranus, and Neptune. In this book, we'll explore seven wonders of these four enormous planets called the gas giants and their moons. On Saturn, we'll examine its amazing rings and their properties. On Jupiter, we ll investigate the Great Red Spot a gigantic storm about twice the size of Earth that has lasted for centuries. We ll also explore a moon of Jupiter with erupting volcanoes, a moon of Uranus covered with one of the weirdest landscapes in the solar system, a huge crater on a tiny moon of Saturn, as well as planet auroras much more spectacular than Earth's northern lights. We'll also consider how the discovery of water on Jupiter's moon Europa may mean that life is possible in other worlds.

Planets: First 100 Lessons-Graeme Partington 2017-07-17 For the first time in 4.6 billion years, your First 100 lessons regarding planets are here. A fascinating tour through space awaits you! This is your ideal introduction to Astronomy. The chapters take you to all eight major planets of our Solar System. All lessons are one-to-a-page. These are the first lessons to learn about planets. Learn the unique qualities and the highlights of each planet. Take an epic journey - as far as the eye can see!

Jupiter-Ernst Julius Opik 1962

Jupiter-Gregory Vogt 2000 Describes the planet Jupiter and its surface features, atmosphere, rotation and orbit, moons, and more.

Jupiter-William Sheehan 2018-04-15 Majestic and untwinkling, Jupiter is the grandest of all planets. It is the largest planet in our solar system and among the brightest objects in the night sky. It shines with a noble, steady luster, and its calming presence has inspired humans for centuries. Jupiter was the “beloved star” of the first serious observers of the planets, the ancient Sumerians and Babylonians, and has inspired poetic utterances from eminent writers such as William Wordsworth and Walt Whitman. It also continues to inspire contemporary astronomers and stargazers, and this beautifully illustrated volume brings our understanding of Jupiter right up to date. The scientific study of Jupiter is at a watershed: NASA’s Juno space probe has entered orbit about Jupiter to investigate the planet, while information gleaned from improved telescopes and other robotic explorers in space continues to improve our understanding of the planet’s origin, evolution, and composition. Jupiter provides a concise and expert overview of the history of our observations of this largest of planetary spheres, as well as reports on the much-anticipated initial findings from the Juno space probe. Also incorporating other recent research that is not widely available, Jupiter is an accessible and engaging introduction to planetary science that will deepen our knowledge both of this magnificent planet and of our own place in the solar system.

Far-Out Guide to Jupiter-Mary Kay Carson 2013-04 Jupiter is bigger than any other planet in our solar system. It has rings and centuries-old storms. It has more than sixty moons, too, some with underground oceans. Featuring a center spread with fast facts, this great book will tell readers everything they need to know about the biggest planet, including missions and the scientists who planned them, and the spacecraft they used to do so.

14 Fun Facts About Jupiter-Caitlind L. Alexander How big is Jupiter compared to all the other planets in our solar system combined? Is there a surface to the planet Jupiter? Does Jupiter rotate faster of slower than any other planet in our solar system? Is Jupiter growing or shrinking year after year? Learn the answer to these questions and many more fun facts in this 15-Minute Book. Jupiter is the largest planet in our solar system. It is a huge gas giant twirling in orbit around the sun. Here are some facts you might not know about Jupiter. LearningIsland.com believes in the value of children practicing reading for 15 minutes every day. Our 15-Minute Books give children lots of fun, exciting choices to read, from classic stories, to mysteries, to books of knowledge. Open the world of reading to a child by having them read for 15 minutes a day.

Jupiter-Ron Miller 2002 Chronicles the discovery and explorations of the planet Jupiter and discusses each of its moons, its place in the solar system, and more.

Planets: A Very Short Introduction-David A. Rothery 2010-11-25 This Very Short Introduction looks deep into space and describes the worlds that make up our Solar System: terrestrial planets, giant planets, dwarf planets and various other objects such as satellites (moons), asteroids and Trans-Neptunian objects. It considers how our knowledge has advanced over the centuries, and how it has expanded at a growing rate in recent years. David A. Rothery gives an overview of the origin, nature, and evolution of our Solar System, including the controversial issues of what qualifies as a planet, and what conditions are required for a planetary body to be habitable by life. He looks at rocky planets and the Moon, giant planets and their satellites, and how the surfaces have been sculpted by geology, weather, and impacts. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The Magnetodiscs and Aurorae of Giant Planets-Karoly Szego 2015-10-14 Readers will find grouped together here the most recent observations, current theoretical models and present understanding of the coupled atmosphere, magnetosphere and solar wind system. The book begins with a general discussion of mass, energy and momentum transport in magnetodiscs. The physics of partially ionized plasmas of the giant planet magnetodiscs is of general interest throughout the field of space physics, heliophysics and astrophysical plasmas; therefore, understanding the basic physical processes associated with magnetodiscs has universal applications. The second chapter characterizes the solar wind interaction and auroral responses to solar wind driven dynamics. The third chapter describes the role of magnetic reconnection and the effects on plasma transport. Finally, the last chapter characterizes the spectral and spatial properties of auroral emissions, distinguishing between solar wind drivers and internal driving mechanisms. The in-depth reviews provide an excellent reference for future research in this discipline.

Planets-James Muirden 1994 Recounts how the solar system was formed, describes the characteristics of each planet, and looks at the moon and asteroids

The Planets-DK 2014-09-01 Discover places where a day is longer than a year, where hailstones are made of diamonds, and where a mountain looms twice the size of Everest. These and more are all to be found in The Planets. The Sun's gravity holds in thrall eight planets, each with an entourage of moons, as well as dwarf planets, asteroids, and comets. The Planets takes you on a dazzling visual tour. From the Solar System's fiery heart, travel to rocky worlds such as tiny Mercury scorched by the Sun. Then witness Venus swathed in a sulfurous haze, and go to the outer reaches to visit planets such as gas giant Jupiter, which is 120 times the size of Earth. Using 3-D models and photography from NASA and the European Space Agency, The Planets describes each one, as well as the extraordinary endeavors of space exploration. Edited by space scientist Maggie Aderin-Pocock, this book is enthralling reading for everyone interested in astronomy and space exploration.

Jupiter-Dennis B. Fradin 1989 Discusses the giant planet, how it was named, and the information astronomers have gathered about it.

Galileo's Planet-Thomas A Hockey 1998-01-01 Since the earliest times one of the brightest lights in the heavens has been that of Jupiter, mythical king of the gods and the largest planet in the solar system. It was only natural that peoples from the dawn of history would be interested in such a planet and, indeed, Jupiter was one of the first objects to be observed with the telescope. Even today Jupiter captures the public interest like no other planet: a vast gaseous world, home to violent storms (larger than the Earth) that have raged for centuries. Galileo's Planet: Observing Jupiter before Photography presents the history of humankind’s quest to understand the giant planet in the era before photography, a time when the only way to observe the universe was with the human eye. The book provides a comprehensive and fascinating account of the people involved in this quest, their observations, and the results of their findings. Many of the planetary features studied in detail by today's space probes were once glimpsed by keen-eyed, amateur astronomers. These Earth-bound explorers made up for their modest instruments and viewing conditions with their patience, perseverance, and passion for the night sky. Their greatest challenge was the fifth planet from the Sun and the search for its imagined surface-a revelation of the "real Jupiter." In the process, these part-time observers redefined the meaning of the word "planet." The book recounts their story from the earliest times right up until the invention of the camera.

Discovering Planets and Moons-Applesauce Press 2018-08-07 With a unique glow-in-the dark tactile book cover that recreates the cratered surface of the moon, DISCOVERING PLANETS AND MOONS is the ultimate guide to the most fascinating features of our solar system. Blast off into outer space with

DISCOVERINGS PLANETS AND MOONS! From the icy outer reaches of our solar system to the blazing heat of the Sun, this action-packed, full-color book is bursting with gripping facts, fun tidbits, and dynamic artwork that bring the mysteries of our galaxy to life!

Jupiter-Rosanna Hansen 2009-09-01 Discusses the discovery, physical characteristics, moons, and exploration of the fifth closest planet to the Sun.

Jupiter---Michael D. Cole 2001 Describes the history, unique features, and exploration of Jupiter, the fifth planet from the Sun.

Pioneer Odyssey-Richard O. Fimmel 1977 The success of Pioneer 11 in repeating an encounter with the giant planet Jupiter and producing unique images of the north polar regions of the planet necessitated an updating of [the previous edition] SP-349. Additional material has been added to the descriptive material about the flight of the spacecraft in Chapter 5. The following chapter, describing the results of the two missions, has been completely updated in the light of further interpretations of the Pioneer 10 data coupled with the new data from Pioneer 11. And additional Chapter 9 has been added to provide a selection of the better images obtained by Pioneer 11. This chapter also includes images of the four Galilean satellites.

Planet Jupiter-Ann O. Squire 2014-11-14 Jupiter is so large that all of the other planets in the solar system could fit inside of it. Readers will discover what sets this gas giant apart from the other planets. They will also learn how it was discovered, take a tour of its many moons, and

Formation and Evolution of Exoplanets-Rory Barnes 2010-04-19 This single, coherent review of the theory behind extrasolar planet formation and interaction systematically covers all aspects of the topic, including different formation processes, planet-planet scattering, giant planets and brown dwarfs. With a chapter on observation, careful referencing and an elaborate bibliography at the end of each chapter, this is indispensable reading for researchers, theorists and observers alike.

On Jupiter- 2006 A fascinating journey of discovery, courtesy of NASA's Galileo spacecraft, probing the secrets of the solar system's largest planet. Witness the spectacular multiple impacts of comet Shoemaker-Levy 9... Delve beneath the cloud layers and take a look at the planet's major moons, 2 of which may harbour life. Discover how Jupiter's massive gravity turns the gas at its surface to liquid and then to metal. And find out why, if it were not for the giant planet's benevolent presence, life on Earth might long ago have ceased to exist.

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