

Solar System

Paul Weissman,Lucy-Ann McFadden,Torrence Johnson

New Views of the Solar System Encyclopaedia Britannica, Inc.,2013-01-01 Are you up to date on the solar system? When the International Astronomical Union redefined the term planet, Pluto was downgraded to a lower status. New Views of the Solar System 2013 looks at scientists' changing perspectives, with articles on Pluto, the eight chief planets, and dwarf planets, new missions, updates for ongoing missions, newly-discovered moons, and updated tables. Brilliant photos and drawings showcase the planets, asteroids, comets, and more, providing a stunning collection of vivid images.

Solar System Marcus Chown,2022-05-10 An astonishing journey through space and time. Experience all the wonders of our interplanetary neighborhood through fascinating text, original graphics, and stunning photographs. Never before have the wonders of our solar system been so immediately accessible to readers of all ages. Award-winning writer and broadcaster Marcus Chown combines science and history to explore the planets, dwarf planets, moons, asteroids, comets, and more, as well as the historical figures who aided in their discoveries. From the explosive surface of the sun to the thrilling missions to Mars--including the journey of Mars rover Perseverance in 2020; from the gargantuan rings of Saturn to the volcanoes of Io; from the latest images of Pluto from NASA's New Horizons probe, to a simulation of what the Oort Cloud might look like, Solar System offers a window seat from which to view the beauty and magnificence of space.

The New Solar System Patricia Daniels,2009 From breathtaking full-color photographs to detailed explanatory diagrams to expert essays, fascinating sidebars, and informative fact boxes, the New Solar System is not just an easy-to-use, solidly reliable reference, but also a visually stunning, invitingly browsable volume guaranteed to fire the imagination of even the most casual reader.

Encyclopedia of the Solar System Paul Weissman,Lucy-Ann McFadden,Torrence Johnson,1998-09-18 The Encyclopedia of the Solar System provides a series of comprehensive and authoritative articles written by more than 50 eminent planetary and space scientists. Each chapter is self-contained yet linked by cross-references to other related chapters. This beautifully designed book is a must for the library of professional astronomers and amateur star-gazers alike, in fact for anyone who wishes to understand the nature of our solar system. Key Features * Cross-referenced throughout for easy comprehension * Superbly illustrated with over 700 photos, drawings, and diagrams, including 36 color plates * Provides 40 thematically organized chapters by more than 50 eminent contributors * Convenient glossaries of technical terms introduce each chapter * Academic Press maintains a web site for the Encyclopedia at www.academicpress.com/solar; Author-recommended web resources for additional information, images, and research developments related to each chapter of this volume, are available here

The Origin of the Solar System H. P. Berlage,Hendrik Petrus Berlage (Jr.),1968

What Do We Know About the Solar System? Ian Graham,2015-12-21 This book explains the evidence that supports our understanding of the solar system, including the very latest discoveries.

Barefoot Books Solar System Anne Jankéliowitch,2019 Blast off to the solar system! Get ready for a breathtaking journey through our cosmic community. In this interactive guide, you will: Travel through richly illustrated pages featuring the eight planets that orbit the Sun; Spark curiosity with extra facts about stars, telescopes, galaxies and more; Delve into details about the latest advances in space exploration; Explore a glossary of scientific terms; Lift the flaps for extra knowledge.

An Introduction to the Solar System David A. Rothery,Neil McBride,Iain Gilmour,2018-01-11 Updated third edition introduces undergraduates to the Solar System's bodies, the processes upon and within them, and their origins and evolution.

The Solar System Beyond Neptune M. Antonietta Barucci,2008 A new frontier in our solar system opened with the discovery of the Kuiper Belt and the extensive population of icy bodies orbiting beyond Neptune. Today the study of all of these bodies, collectively referred to as trans-Neptunian objects, reveals them to be frozen time capsules from the earliest epochs of solar system formation. This new volume in the Space Science Series, with one hundred contributing authors, offers the most detailed and up-to-date picture of our solar system's farthest frontier. Our understanding of trans-Neptunian objects is rapidly evolving and currently constitutes one of the most active research fields in planetary sciences. The Solar System Beyond Neptune brings the reader to the forefront of our current understanding and points the way to further advancement in the field, making it an indispensable resource for researchers and students in planetary science.

Solar System in Minutes Giles Sparrow,2018-11-27 The Solar System in Minutes explains the history and features of all the major celestial bodies, including the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, the planets' main moons, the asteroids, comets, dwarf planets, and the Kuiper belt, as well as the birth, evolution, and science of the solar system and the story--and future--of its exploration. With 200 of the very latest space images and explanatory diagrams that bring these concepts to life, Solar System in Minutes is the easiest way to understand our cosmic neighborhood.

Where Is Our Solar System? Stephanie Sabol,Who HQ,2018-01-02 Readers will want to grab a telescope and explore the night skies after finishing this overview of our solar system. Our solar system consists of eight planets, as well as numerous moons, comets, asteroids, and meteoroids. For thousands of years, humans believed that Earth was at the center of the Universe, but all of that changed in the 17th century. Astronomers like Nicolaus Copernicus, Galileo Galilei, Johannes Kepler, and Isaac Newton proposed the unthinkable theory that Earth and the other planets actually revolved around the Sun. This engaging book chronicles the beginning of the modern age of astronomy, then follows later discoveries, including NASA's current missions in space.

Solar System Astrophysics Eugene F. Milone,William J.F. Wilson,2014-01-02 The second edition of Solar System Astrophysics: Background Science and the Inner Solar System provides new insights into the burgeoning field of planetary astronomy. As in the first edition, this volume begins with a rigorous treatment of coordinate frames, basic positional astronomy, and the celestial mechanics of two and restricted three body system problems. Perturbations are treated in the same way, with clear step-by-step derivations. Then the Earth's gravitational potential field and the Earth-Moon system are discussed, and the exposition turns to radiation properties with a chapter on the Sun. The exposition of the physical properties of the Moon and the terrestrial planets are greatly expanded, with much new information highlighted on the Moon, Mercury, Venus, and Mars. All of the material is presented within a framework of historical importance. This book and its sister volume, Solar System Astrophysics: Background Science and the Inner Solar system, are pedagogically well written, providing clearly illustrated explanations, for example, of such topics as the numerical integration of the Adams-Williamson equation, the equations of state in planetary interiors and atmospheres, Maxwell's equations as applied to planetary ionospheres and magnetospheres, and the physics and chemistry of the Habitable Zone in planetary systems. Together, the volumes form a comprehensive text for any university course that aims to deal with all aspects of solar and extra-solar planetary systems. They will appeal separately to the intellectually curious who would like to know how just how far our knowledge of the solar system has progressed in recent years.

Exploring the Solar System Mary Kay Carson,2008-02-01 In this stellar activity book, kids delve into the rich history of space exploration, where telescopes, satellites, probes, landers, and human missions lead to amazing discoveries. Updated to include the recent discovery of Eris which, along with Pluto, has been newly classified as a &“dwarf planet&” by the International Astronomical Union, this cosmic adventure challenges kids to explore the planets and other celestial bodies for themselves through activities such as building a model of a comet using soil, molasses, dry ice, and window cleaner; or creating their own reentry vehicle to safely return an egg to Earth's surface. With biographies of more than 20 space pioneers, specific mission details, a 20-page field guide to the solar system, and plenty of suggestions for further research, this is the ultimate guidebook to exploring the solar system.

The Story of the Solar System George F. Chambers,2023-10-12 The Story of the Solar System by George F. Chambers is an informative journey through the celestial realm. Chambers' book offers a detailed

exploration of the formation and evolution of our solar system, accompanied by vivid illustrations. Whether you're an aspiring astronomer or simply curious about the cosmos, this book provides a captivating narrative of the planets, asteroids, and other celestial bodies that make up our solar system.

An Introduction to the Solar System David A. Rothery, Neil McBride, Iain Gilmour, 2018-01-11 Ongoing advances in Solar System exploration continue to reveal its splendour and diversity in remarkable detail. This undergraduate-level textbook presents fascinating descriptions and colour images of the bodies in the Solar System, the processes that occur upon and within them, and their origins and evolution. It highlights important concepts and techniques in boxed summaries, while questions and exercises are embedded at appropriate points throughout the text, with full solutions provided. Written and edited by a team of practising planetary scientists, this third edition has been updated to reflect our current knowledge. It is ideal for introductory courses on the subject, and is suitable for self-study. The text is supported by online resources, hosted at www.cambridge.org/solarsystem3, which include selected figures from the book, self-assessment questions and sample tutor assignments, with outlines of suggested answers.

The Planets of Our Solar System Steve Kortenkamp, 2011 Describes the eight planets in our solar system, including the birth of the solar system and the planets' orbits around the Sun--Provided by publisher.

Solar System Gregory Vogt, 2003 Presents color-illustrated profiles of the sun and each planet in the solar system, describing their size, composition, moons and rings, and other characteristics, and includes a brief discussion of asteroids and comets.

The Story of the Solar System George Frederick Chambers, 1915

The Solar System Kathryn Whyman, 2004 The Solar System is the part of the universe in which we live. It would take many years to travel from one side of it to the other. This book looks at the solar system-what it is, where it came from, and how we study it. Find out why the planets orbit the sun, why a day on Venus is longer than a year on Venus, and discover how the planet Saturn could float on water. Book jacket.

The Sun and the Origins of the Solar System Nicholas Faulkner, 2018-12-15 This intriguing book follows the Next Generation Science Standards focusing on the solar system and offers serious students of astronomy a detailed look at our Sun and the bodies that orbit it. Readers will learn, in detail, about the Sun's internal structure, including its energy generation, corona, the solar wind, sunspots, and solar flares, among other fascinating characteristics. They'll also study the solar system, which is fueled by the sun. This book is ideal for any reader who would appreciate detailed information for a school report, or who just wants to learn it on their own for more advanced study.

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