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KEY=SYSTEM - LUIS AUGUST

FROM DUST TO LIFE

THE ORIGIN AND EVOLUTION OF OUR SOLAR SYSTEM

Princeton University Press **The birth and evolution of our solar system is a tantalizing mystery that may one day provide answers to the question of human origins. This book tells the remarkable story of how the celestial objects that make up the solar system arose from common beginnings billions of years ago, and how scientists and philosophers have sought to unravel this mystery down through the centuries, piecing together the clues that enabled them to deduce the solar system's layout, its age, and the most likely way it formed. Drawing on the history of astronomy and the latest findings in astrophysics and the planetary sciences, John Chambers and Jacqueline Mitton offer the most up-to-date and authoritative treatment of the subject available. They examine how the evolving universe set the stage for the appearance of our Sun, and how the nebulous cloud of gas and dust that accompanied the young Sun eventually became the planets, comets, moons, and asteroids that exist today. They explore how each of the planets acquired its unique characteristics, why some are rocky and others gaseous, and why one planet in particular--our Earth--provided an almost perfect haven for the emergence of life. From Dust to Life is a must-read for anyone who desires to know more about how the solar system came to be. This enticing book takes readers to the very frontiers of modern research, engaging with the latest controversies and debates. It reveals how ongoing discoveries of far-distant extrasolar planets and planetary systems are transforming our understanding of our own solar system's astonishing history and its possible fate.**

MY FIRST BOOK OF THE SOLAR SYSTEM

Collins **This title introduces children to the ever-popular topic of space and the amazing worlds that make up our solar system.**

MOONS OF THE SOLAR SYSTEM

FROM GIANT GANYMEDE TO DAINTY DACTYL

Springer **This book captures the complex world of planetary moons, which are more diverse than Earth's sole satellite might lead you to believe. New missions continue to find more of these planetary satellites, making an up to date guide more necessary than ever. Why do Mercury and Venus have no moons at all? Earth's Moon, of course, is covered in the book with highly detailed maps. Then we move outward to the moons of Mars, then on to many of the more notable asteroid moons, and finally to a list of less-notable ones. All the major moons of the gas giant planets are covered in great detail, while the lesser-known satellites of these worlds are also touched on. Readers will learn of the remarkable trans-Neptunian Objects - Pluto, Eris, Sedna, Quaoar -including many of those that have been given scant attention in the literature. More than just objects to read about, the planets' satellites provide us with important information about the history of the solar system. Projects to help us learn more about the moons are included throughout the book. Most amateur astronomers can name some of the more prominent moons in the solar system, but few are intimately familiar with the full variety that exists in our backyard: 146 and counting. As our understanding of the many bodies in our solar system broadens, this is an invaluable tour of our expanding knowledge of the moons both near and far.**

SOLAR SYSTEM EVOLUTION

A NEW PERSPECTIVE

Cambridge University Press **Publisher Description**

THE SOLAR SYSTEM IN CLOSE-UP

Springer **In response to the new information gained about the Solar System from recent space probes and space telescopes, the experienced science author Dr. John Wilkinson presents the state-of-the art knowledge on the Sun, solar system planets and small solar system objects like comets and asteroids. He also describes space missions like the New Horizon's space probe that provided never seen before pictures of the Pluto system; the Dawn space probe, having just visited the asteroid Vesta, and the dwarf planet Ceres; and the Rosetta probe inorbit around comet 67P/Churyumov-Gerasimenko that has sent extraordinary and most exciting pictures. Those and a number of other probes are also changing our understanding of the solar system and providing a wealth of new up close photos. This**

book will cover all these missions and discuss observed surface features of planets and moons like their compositions, geysers, aurorae, lightning phenomena etc. Presenting the fascinating aspects of solar system astronomy this book is a complete guide to the Solar System for amateur astronomers, students, science educators and interested members of the public.

OUR SOLAR SYSTEM

Information Books Packed with information, this book opens before us like a tunnel through space, enabling us to make a fascinating tour of the planets in our solar system. Revised and updated, the new edition of this three-dimensional information book encourages children to study interesting data about each of the planets. Larger trim size and additional spread.

THE SOLAR SYSTEM

Cengage Learning Fascinating, engaging, and extremely visual, **THE SOLAR SYSTEM** emphasizes the scientific method throughout as it guides students to answer two fundamental questions: What are we? And how do we know? Updated with the newest developments and latest discoveries in the field of astronomy, authors Michael Seeds and Dana Backman discuss the interplay between evidence and hypothesis, while providing not only facts but also a conceptual framework for understanding the logic of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

BAREFOOT BOOKS SOLAR SYSTEM

Barefoot Books A glow-in-the-dark, interactive guide to the Solar System, carefully crafted to make complex STEM concepts like astronomy, physics and chemistry understandable for children aged 8-12. Barefoot Books Solar System joins the celebrated Barefoot Books World Atlas as another standout nonfiction title on Barefoot's list to explore the world and universe.

SOLAR SYSTEM IN MINUTES

In Minutes This concise, illuminating guide takes us on a comprehensive tour of the solar system, from the Sun at its very heart - via the planets and their moons - to the icy objects at its periphery, some 150 billion kilometres away. 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 photographs and explanatory diagrams, here is the easiest way to understand our cosmic neighbourhood.

THE CAMBRIDGE GUIDE TO THE SOLAR SYSTEM

Cambridge University Press Richly illustrated with full-color images, this book is a comprehensive, up-to-date description of the planets, their moons, and recent exoplanet discoveries. This second edition of a now classic reference is brought up to date with fascinating new discoveries from 12 recent Solar System missions. Examples include water on the Moon, volcanism on Mercury's previously unseen half, vast buried glaciers on Mars, geysers on Saturn's moon Enceladus, lakes of hydrocarbons on Titan, encounter with asteroid Itokawa, and sample return from comet Wild 2. The book is further enhanced by hundreds of striking new images of the planets and moons. Written at an introductory level appropriate for undergraduate and high-school students, it provides fresh insights that appeal to anyone with an interest in planetary science. A website hosted by the author contains all the images in the book with an overview of their importance. A link to this can be found at www.cambridge.org/solarsystem.

ENCYCLOPEDIA OF THE SOLAR SYSTEM

Academic Press 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

WONDERS OF THE SOLAR SYSTEM

HarperCollins UK Examines the most powerful phenomena in space, from the methane-filled oceans of Saturn to the super-volcanoes that dominate Jupiter's moon, Io, and explains what some of Earth's extreme locations can reveal about the solar system.

INNER SOLAR SYSTEM

PROSPECTIVE ENERGY AND MATERIAL RESOURCES

[Springer](#) This book investigates Venus and Mercury prospective energy and material resources. It is a collection of topics related to exploration and utilization of these bodies. It presents past and future technologies and solutions to old problems that could become reality in our life time. The book therefore is a great source of condensed information for specialists interested in current and impending Venus and Mercury related activities and a good starting point for space researchers, inventors, technologists and potential investors. Written for researchers, engineers, and businessmen interested in Venus and Mercury exploration and exploitation.

MY FIRST BOOK OF PLANETS

ALL ABOUT THE SOLAR SYSTEM FOR KIDS

[Rockridge Press](#) Blast off on an exploration of our solar system--a fun space book for kids 3 to 5 Get even the smallest astronomer excited for the big universe of space, from the bright and burning sun to our own blue Earth to ice-capped Pluto and every planet in between. With this book, kids will explore the entire solar system through incredible photos and fascinating facts on what makes each planet so special--like their size, distance from the sun, what the surface is like, how many moons they have, and more! This planets for kids book includes: Big, beautiful images—Vibrant photos will take kids deep into space and onto each planet—no telescope required. Astronomy for kids—Learn all about the eight planets in our solar system, plus dwarf planets Ceres, Pluto, Eris, Haumea, and Makemake. Fun space facts—Did you know the bubbles in soda are the same gas that's on Venus? Out of this world facts will keep kids glued to the page and excited to explore the sky. Show kids the amazing universe that surrounds them with this fun and engaging astronomy book.

OUTER SOLAR SYSTEM

PROSPECTIVE ENERGY AND MATERIAL RESOURCES

[Springer](#) The Earth has limited resources while the resources in space are virtually unlimited. Further development of humanity will require going beyond our planet and exploring of extraterrestrial bodies and their resources. This book investigates Outer Solar Systems and their prospective energy and material resources. It presents past missions and future technologies and solutions to old problems that could become reality in our life time. The book therefore is a great resource of condensed information for specialists interested in current and impending Outer Solar Systems related activities and a good starting point for space researchers, inventors, technologists and potential investors.

SOLAR SYSTEM ASTROPHYSICS

BACKGROUND SCIENCE AND THE INNER SOLAR SYSTEM

[Springer Science & Business Media](#) 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

[Courier Corporation](#) Forty-four dramatic illustrations depict an asteroid, a spacecraft observing the landscape of Mars, representations of all the planets, more. Captions.

THE SOLAR SYSTEM

[The Rosen Publishing Group, Inc](#) The solar system can be a complicated topic, especially with young readers trying to obtain a grasp on this mind-boggling subject. However, this volume acts as an engaging primer to help young readers learn about the sun, the planets, and other aspects of the solar system. Challenging questions encourage readers to think about what they already know about the solar system. After a bit of self-query and pondering, they're provided with enlightening answers that also reinforce crucial concepts from the elementary science curriculum. They'll learn answers to where the sun goes at night, why the planets are different colors, why Earth is called Earth, and if there is life anywhere else.

OUR SOLAR SYSTEM

[Sterling Children's Books](#) **The youngest astronomers can go forth and journey into outer space in this fun, basic introduction to the solar system. The unique format presents our sun and each planet in order with graduated flaps turn each flap to reveal fascinating facts on each celestial body, and even the Milky Way!"**

LIFE IN THE SOLAR SYSTEM AND BEYOND

[Springer Science & Business Media](#) **In Life in the Solar System and Beyond, Professor Jones has written a broad introduction to the subject, addressing important topics such as, what is life?, the origins of life and where to look for extraterrestrial life. The chapters are arranged as follows: Chapter 1 is a broad introduction to the cosmos, with an emphasis on where we might find life. In Chapters 2 and 3 Professor Jones discusses life on Earth, the one place we know to be inhabited. Chapter 4 is a brief tour of the Solar system, leading us in Chapters 5 and 6 to two promising potential habitats, Mars and Europa. In Chapter 7 the author discusses the fate of life in the Solar system, which gives us extra reason to consider life further afield. Chapter 8 focuses on the types of stars that might host habitable planets, and where in the Galaxy these might be concentrated. Chapters 9 and 10 describe the instruments and techniques being employed to discover planets around other stars (exoplanetary systems), and those that will be employed in the near future. Chapter 11 summarizes the known exoplanetary systems, together with an outline of the systems we expect to discover soon, particularly habitable planets. Chapter 12 describes how we will attempt to find life on these planets, and the final chapter brings us to the search for extraterrestrial intelligence, and the question as to whether we are alone.**

MAGNETIC FIELDS IN THE SOLAR SYSTEM

PLANETS, MOONS AND SOLAR WIND INTERACTIONS

[Springer](#) **This book addresses and reviews many of the still little understood questions related to the processes underlying planetary magnetic fields and their interaction with the solar wind. With focus on research carried out within the German Priority Program "PlanetMag", it also provides an overview of the most recent research in the field. Magnetic fields play an important role in making a planet habitable by protecting the environment from the solar wind. Without the geomagnetic field, for example, life on Earth as we know it would not be possible. And results from recent space missions to Mars and Venus strongly indicate that planetary magnetic fields play a vital role in preventing atmospheric erosion by the solar wind. However, very little is known about the underlying interaction between the solar wind and a planet's magnetic field. The book takes a synergistic interdisciplinary approach that combines newly developed tools for data acquisition and analysis, computer simulations of planetary interiors and dynamos, models of solar wind interaction, measurement of ancient terrestrial rocks and meteorites, and laboratory investigations.**

A LITTLE BOOK OF COINCIDENCE

IN THE SOLAR SYSTEM

[Bloomsbury Publishing USA](#) **Looks at the orbital patterns of the planets and the mathematical patterns surrounding them.**

SOLAR SYSTEM

BETWEEN FIRE AND ICE

[CRC Press](#) **Combining the latest astronomical results with a historical perspective, Solar System: Between Fire and Ice takes you on a fabulous tour of our intriguing Solar System. Not content with a conventional discourse restricted to the major and minor bodies, astronomers Hockey, Bartlett, and Boice venture beyond the limits of our system to look at exoplanets and to consider future trends in space exploration and tourism. They discuss not only what scientists know about planets, asteroids, and comets but how the discoveries were made. With extensive teaching experience, their accessible prose clearly explains essential physical concepts. Lavishly illustrated as well as carefully researched, Solar System: Between Fire and Ice delights the eyes as well as feeding the mind. Detailed appendices provide additional technical data and resources for your own on-line voyage of discovery. Whether you are an educated layperson, student, teacher, amateur astronomer, or merely curious, you will come away having learned the most up-to-date knowledge and enjoyed the process. The authors bring a unique perspective to this subject, combining their years of experience in research, teaching, and history of planetary science. Prof. Thomas Hockey is a professor of astronomy, specializing in planetary science and the history of science. Dr. Jennifer Bartlett is an astronomer with a forte in dynamical motions of asteroids with liberal arts teaching experience. Dr. Daniel Boice is an active research astronomer in planetary science, especially comets, with considerable teaching experience. "In the 1980s and 90s the Viking and Voyager missions provided droves of exciting information, generating a new level of public interest. Textbooks were rewritten and scientists worked to understand the data during mission poor period that followed. In recent times, however, we have entered a new era. There has been a multinational effort to expand our knowledge of the Solar System. Data from these missions has been freely shared and has again raised the level of public interest. Within this era of renewed interest, it is appropriate, as is done in this book, to provide the public with an effort to present an integrated view of our Solar System and questions that the discovery of extrasolar planets have raised with regard to the Solar System as a whole." Professor Reta Beebe, recipient of NASA's Exceptional Public Service Medal "I understand this book to be aimed at a general audience, but I can also see its use as a text in astronomy classes,**

especially in a community school or situations where students typically resist reading the textbook. The writing is light and entertaining, and will engage students, yet it thoroughly covers all the basic concepts of a typical Astro 101 class." - Dr. Katy Garmany, winner of the American Astronomical Society's Annie J. Cannon Award.

LEARNING ABOUT THE SOLAR SYSTEM

[Courier Corporation](#) Each page in this easy-to-read guide describes the features of a heavenly body in our solar system, including the Sun, the nine planets, the Earth's moon, and a comet. You'll also find a dramatic sticker illustration of each subject that you can apply to a blank space on the appropriate page. A fun way to learn about our cosmic neighbors, this fact-filled little book will also please teachers, parents, and other adults looking for educational and affordable learning aids for young space scientists.

SOLAR SYSTEM UPDATE

[Springer Science & Business Media](#) This book, the first in a series of forthcoming volumes, consists of topical and timely reviews of a number of carefully selected topics in solar system science. Contributions, in form of up-to-date reviews, are mainly aimed at professional astronomers and planetary scientists wishing to inform themselves about progress in fields closely related to their own field of expertise.

THE SOLAR SYSTEM

[Usborne Pub Limited](#) Discusses the planets, the sun, and the exploration of space.

OUR SOLAR SYSTEM

REVISED EDITION

[Harper Collins](#) Join award-winning science writer Seymour Simon in this completely updated edition of *Our Solar System*, as he takes young readers on a fascinating tour through space! With beautiful full-color photographs and spacecraft images, including many taken by the Mars rovers and Hubble Space Telescope, this nonfiction picture book teaches young readers all about the solar system, including the sun, the eight planets, and their moons. Covering all the latest discoveries in space, young astronomers will be over the moon about the fun facts, fascinating science, and incredible photographs. A must-have for every child interested in outer space! This book includes an author's note, a glossary, an index, and further reading suggestions. An excellent choice for classrooms and homeschooling, *Our Solar System* supports the Common Core State Standards. Check out these other Seymour Simon books about the universe and space: *Comets*, *Meteors*, and *Asteroids Destination: Jupiter Destination: Mars Destination: Space Exoplanets Galaxies Stars The Sun The Universe*

THE TRANS-NEPTUNIAN SOLAR SYSTEM

The Trans-Neptunian Solar System is a timely reference highlighting the state-of-the-art in current knowledge on the outer solar system. It not only explores the individual objects being discovered there, but also their relationships with other Solar System objects and their roles in the formation and evolution of the Solar System and other planets. Integrating important findings from recent missions, such as New Horizons and Rosetta, the book covers the physical properties of the bodies in the Trans-Neptunian Region, including Pluto and other large members of the Kuiper Belt, as well as dynamical indicators for Planet 9 and related objects and future prospects. Offering a complete look at exploration and findings in the Kuiper Belt and the rest of the outer solar system beyond Neptune, this book is an important resource to bring planetary scientists, space scientists and astrophysicists up-to-date on the latest research and current understandings. Provides the most up-to-date information on the exploration of the Trans-Neptunian Solar System and what it means for the future of outer solar system research Contains clear sections that provide comprehensive coverage on the most important facets of the outer Solar System Includes four-color images and data from important missions, including New Horizons and Rosetta Concludes with suggestions and insights on the future of research on Trans-Neptunian objects

USBORNE BOOK AND JIGSAWS: THE SOLAR SYSTEM

This pack contains a beautifully illustrated 200-piece jigsaw of the Solar System and a richly detailed double-sided fold-out that forms one continuous picture of the Solar System, featuring the Sun, planets, and various moons and spacecraft. The reverse features the same image, annotated with facts about each of the objects shown. Illustrations: Full colour throughout

EXPLORING THE SOLAR SYSTEM

THE HISTORY AND SCIENCE OF PLANETARY EXPLORATION

[Springer](#) Beginning in the early days of the Space Age - well before the advent of manned spaceflight - the United States, followed soon by other nations, undertook an ambitious effort to study the planets of the solar system. The remarkable fruits of this research revolutionized the public's view of their celestial neighbors, capturing the imaginations of people from all backgrounds like nothing else save the Apollo lunar missions. From the first space probes to the most recent planetary rovers, they have continually delivered impressive discoveries and reshaped our understanding of the cosmos. Offering fascinating investigations into this crucial chapter in space history, this

collection of specially commissioned essays from leading historians opens new vistas in our understanding of the development of planetary science.

THE SOLAR SYSTEM

Prentice Hall

ADVENTURES IN THE SOLAR SYSTEM

PLANETRON AND ME

Price Stern Sloan **A young boy takes a voyage through the solar system aboard a space ship and learns about the sun, planets, moons, and asteroids.**

A SHORT ACCOUNT OF THE SOLAR SYSTEM, AND OF COMETS IN GENERAL: WITH A PARTICULAR ACCOUNT OF THE COMET THAT WILL APPEAR IN 1789. [WITH A PLATE.]

THE FORMATION OF THE SOLAR SYSTEM

THEORIES OLD AND NEW

Imperial College Press **This book traces the development of ideas about the origin of the Solar System from ancient times to the present day. A survey of more modern ideas, covering the last 200 years or so, highlights the difficulties experienced by theories and also points the way towards the development of a more successful theory. In particular, the current OC standard modelOCO OCo the Solar Nebula Theory OCo is examined and discussed in some detail. After more than thirty years of development, this theory has still not settled down into an agreed form, as it experiences both theoretical difficulties and problems with reconciling new observations. By contrast, the Capture Theory, developed over the last forty years by the author, and supported by recent observations provides a complete description of the formation of the Solar System, including an evolutionary hypothesis that explains the detailed structure of the system. Written in an informative yet accessible manner, this book will appeal to both specialist and non-specialist readers alike. Sample Chapter(s). Introduction (47 KB). Chapter 1: Theories Come and Theories Go (94 KB). Contents: Enlightenment; The Solar System: Features and Problems; New Knowledge; The Return of the Nebula; Making Stars; Capture; The Biggish-Bang Hypothesis. Readership: Students with a background in basic science, and members of the informed public."**

SOLAR SYSTEM : THE SUN

Om Books International

GIANT PLANETS OF OUR SOLAR SYSTEM

ATMOSPHERES, COMPOSITION, AND STRUCTURE

Springer Science & Business Media **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.**

THE SOLAR SYSTEM

Usborne Books **A simple introduction to the solar system that provides information about the sun, planets, and space exploration.**

ASTRONOMY

THE SOLAR SYSTEM AND BEYOND

SOLAR SYSTEM DYNAMICS

Cambridge University Press **The Solar System is a complex and fascinating dynamical system. This is the first textbook to describe comprehensively the dynamical features of the Solar System and to provide students with all the mathematical tools and physical models they need to understand how it works. It is a benchmark publication in the field of planetary dynamics and destined to become a classic. Clearly written and well illustrated, Solar System Dynamics shows how a basic knowledge of the two- and three-body problems and perturbation theory can be combined to understand features as diverse as the tidal heating of Jupiter's moon Io, the origin of the Kirkwood gaps in the asteroid belt, and the radial structure of Saturn's rings. Problems at the end of each chapter and a free Internet Mathematica® software package are provided. Solar System Dynamics provides an authoritative textbook for courses on planetary dynamics and celestial mechanics. It also equips students with the mathematical tools to tackle broader**

courses on dynamics, dynamical systems, applications of chaos theory and non-linear dynamics.

IT'S ALL ABOUT... SUPER SOLAR SYSTEM

It's all about **A book of exciting pictures and up-to-date facts and stats on the stunning stars and planets in outer space!**