

Astronomy Our Solar System And Beyond Paperback

The Solar System Encyclopedia of the Solar System What Do We Know about the Solar System? Solar System Solar System in Minutes The solar system Formation Of The Solar System, The: Theories Old And New (2nd Edition) The Sun and the Origins of the Solar System The Solar System Grading NASA's Solar System Exploration Program The Solar System and Its Origin The Solar System The Solar System Set Encyclopedia of the Solar System Physics and Chemistry of the Solar System The New Solar System The Solar System Universe Space Exploring The Solar System John A. Wood Tilman Spohn Ian Graham Thomas Hockey Giles Sparrow Thomas Dick Michael Mark Woolfson Nicholas Faulkner Roman Smoluchowski National Research Council Henry Norris Russell Therese Encrenaz Linda T. Elkins-Tanton Lucy-Ann McFadden John S. Lewis J. Kelly Beatty My Ebook Publishing House Wonder House Books Tourville

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the encyclopedia of the solar system third edition winner of the 2015 prose award in cosmology astronomy from the association of american publishers provides a framework for understanding the origin and evolution of the solar system historical discoveries and details about planetary bodies and how they interact with an astounding breadth of content and breathtaking visual impact the encyclopedia includes the latest explorations and observations hundreds of color digital images and illustrations and over 1 000 pages it stands alone as the definitive work in this field and will serve as a modern messenger of scientific discovery and provide a look into the future of our solar system new additions to the third edition reflect the latest progress and growth in the field including past and present space missions to the terrestrial planets the outer solar systems and space telescopes used to detect extrasolar planets winner of the 2015 prose award in cosmology astronomy from the association of american publishers presents 700 full color digital images and diagrams from current space missions and observatories bringing to life the content and aiding in the understanding and retention of key concepts includes a substantial appendix containing data on planetary missions fundamental

data of relevance for planets and satellites and a glossary providing immediately accessible mission data for ease of use in conducting further research or for use in presentations and instruction contains an extensive bibliography providing a guide for deeper studies into broader aspects of the field and serving as an excellent entry point for graduate students aiming to broaden their study of planetary science

this book explains the evidence that supports our understanding of the solar system including the very latest discoveries

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 kathy garman winner of the american astronomical society s annie j cannon award

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

this fully updated second edition remains the only truly detailed exploration of the origins of our solar system written by an authority in the field unlike other authors michael woolfson focuses on the formation of the solar system engaging the reader in an intelligent yet accessible discussion of the development of ideas about how the solar system formed from ancient times to the present within the last five decades new observations and new theoretical advances have transformed the way scientists think about the problem of finding a plausible theory spacecraft and landers have explored the planets of the solar system observations have been made of solar system bodies outside the region of the planets and planets have been detected and observed around many solar type stars this new edition brings in the most recent discoveries including the establishment of dwarf planets and challenges to the standard model of planet formation the solar nebula theory while presenting the most up to date material and the underlying science of the theories described the book avoids technical jargon and terminology it thus remains a digestible read for the non expert interested reader whilst being detailed and comprehensive enough to be used as an undergraduate physics and astronomy textbook where the formation of the solar system is a key part of the course michael woolfson is emeritus professor of theoretical physics at university of york and is an award winning crystallographer and astronomer

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

summarizes current knowledge about the sun moon and planets discusses the evolution of the solar system and considers the origin of life on earth

the nasa authorization act of 2005 directed the agency to ask the nrc to assess the performance of each division in the nasa science directorate at five year intervals in this connection nasa requested the nrc to review the progress the planetary exploration division has made in implementing recommendations from previous relevant nrc studies this book provides an assessment of nasa s progress in fulfilling those recommendations including an evaluation how well it is doing and of current trends the book covers key science questions flight missions mars exploration research and analysis and enabling technologies recommendations are provided for those areas in particular need of improvement

in this third corrected and revised edition students and lecturers in astronomy and planetary science as well as planet observers will find a mine of up to date information on the solar system and its interaction with the interplanetary medium its various objects comparative planetology

discussion of questions for further research and future space exploration

the solar system set explores the relationship between the sun the center of the solar system and its orbiters including mercury venus earth mars jupiter saturn uranus neptune and pluto as well as asteroids meteorites and comets space missions that helped the scientific community gain a more thorough understanding of solar system bodies are introduced in each volume along with images and discussions related to each particular subject whereas some books in the set focus on universal unknowns and the results of space missions others emphasize the importance of viewing the solar system as a continuum of sizes and types of bodies each book discusses the role of planets or other small bodies as recorders of the formation of the solar system this new six title set examines the various solar system bodies and encourages a more complex understanding of the many sizes and types of bodies that orbit the sun each volume will also include an eight page insert of full color photographs pertaining to each topic this new set is a must have for libraries serving students interested in gaining a detailed perspective on how the universe was formed and how each planet and universal body relates to the sun and the rest of the universe

long before galileo published his discoveries about jupiter lunar craters and the milky way in the starry messenger in 1610 people were fascinated with the planets and stars around them that interest continues today and scientists are making new discoveries at an astounding rate ancient lake beds on mars robotic spacecraft missions and new definitions of planets now dominate the news how can you take it all in start with the new encyclopedia of the solar system second edition this self contained reference follows the trail blazed by the bestselling first edition it provides a framework for understanding the origin and evolution of the solar system historical discoveries and details about planetary bodies and how they interact and has jumped light years ahead in terms of new information and visual impact offering more than 50 new material the encyclopedia includes the latest explorations and observations hundreds of new color digital images and illustrations and more than 1 000 pages it stands alone as the definitive work in this field and will serve as a modern messenger of scientific discovery and provide a look into the future of our solar system forty seven chapters from 75 eminent authors review fundamental topics as well as new models theories and discussions each entry is detailed and scientifically rigorous yet accessible to undergraduate students and amateur astronomers more than 700 full color digital images and diagrams from current space missions and observatories amplify the chapters thematic chapters provide up to date coverage including a discussion on the new international astronomical union iau vote on the definition of a planet information is easily accessible with numerous cross references and a full glossary and index

this book is aimed at several distinct audiences first the upper division science major who wants an up to date appreciation of the present state of the planetary sciences for cultural purposes second the first year graduate student from any of several undergraduate disciplines who intends to take graduate courses in specialized areas of planetary sciences and third the practicing ph d scientist with training in physics chemistry geology astronomy meteorology biology etc who has a highly specialized knowledge of some portion of this material but has not had the opportunity to study the broad context within which that specialty might be applied to current problems in this field

as the definitive guide for the armchair astronomer the new solar system has established itself as the leading book on planetary science and solar system studies incorporating the latest knowledge of the solar system a distinguished team of researchers many of them principal investigators on nasa missions explain the solar system with expert ease the completely revised text includes the most recent findings on asteroids comets the sun and our neighboring planets the book examines the latest research and thinking about the solar system looks at how the sun and planets formed and discusses our search for other planetary systems and the search for life in the solar system in full color and heavily illustrated the book contains more than 500 photographs portrayals and diagrams an extensive set of tables with the latest characteristics of the planets their moon and ring systems comets asteroids meteorites and interplanetary space missions complete the text new to this edition are descriptions of collisions in the solar system full scientific results from galileo s mission to jupiter and its moons and the mars pathfinder mission for the curious observer as well as the student of planetary science this book will be an important library acquisition j kelly beatty is the senior editor of sky telescope where for more than twenty years he has reported the latest in planetary science a renowned science writer he was among the first journalists to gain access to the soviet space program asteroid 2925 beatty was named on the occasion of his marriage in 1983 carolyn collins petersen is an award winning science writer and co author of hubble vision cambridge 1995 she has also written planetarium programs seen at hundreds of facilities around the world andrew l chaikin is a boston based science writer he served as a research geologist at the smithsonian institution s center for earth and planetary studies he is a contributing editor to popular science and writes frequently for other publications

take an amazing journey through our solar system and beyond with this friendly introduction to space explore the sun planets and more get ready to launch a lifetime of discovery

experience the cosmos as never before with universe the solar system and beyond beginning with a fascinating overview and then organized by planet this book takes us on a trip across time and space that includes a front row seat to the explosive birth of the solar system a journey to and then deep inside each of its eight planets and even an in depth exploration of asteroids and comets with this newly revised edition the authors goals are to help you use astronomy to understand science and use science to understand what we are fascinating engaging and visually vibrant this text will help you answer two fundamental questions what are we and how do we know three ever widening domains are presented earth our solar system and the large scale universe itself each including the ones before it and extending outward

why is the sun the centre of the solar system and how old is it why can t we count stars why does earth and other planets revolve around the sun this encyclopedia will answer these and more whys for you learning is made simpler with well labelled diagrams and an extensive glossary of difficult words bonus the book comes loaded with isn t it amazing a section of fun facts to keep you glued for more

learn about how physics math and science work together to help us understand our solar system and beyond

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Introduction

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FAQs

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