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

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

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this volume briefly describes what we know about our solar system

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

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packed with real science and fueled by imagination a beautifully illustrated guide to traveling in our solar system imagine taking a hike along the windswept red plains of mars to dig for signs of life or touring one of jupiter s sixty four moons where you can photograph its swirling storms for a shorter trip on a tight budget the moon is quite majestic and very quiet if you can make it during the off season packed with full color illustrations and real world science vacation guide to the solar system is the must have planning guide for the curious space adventurer covering all of the essentials for your next voyage how to get there and what to do when you arrive perfect for fans of neil degrasse tyson s astrophysics for people in a hurry this tongue in cheek reference guide is an imaginative exploration into the what if of space travel sharing fascinating facts about space the planets in our solar system and even some moons

the solar system is made up of planets moons asteroids comets meteoroids and

more young readers will learn about the bodies that make up the solar system and how they interact with each other

explore the solar system with this exciting bind up visual guide with informative diagrams and nasa photography the up to date text informs children about basic astronomy each planet star or space object is looked at in detail as are developments in space technology discoveries and astronomers

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

a simple introduction to our solar system and its many components including the sun planets satellites asteroids and comets

describes the sun planets and other objects in the solar system

discovering the solar system second edition covers the sun the planets their satellites and the host of smaller bodies that orbit the sun this book offers a comprehensive introduction to the subject for science students and examines the discovery investigation and modelling of these bodies following a thematic approach chapters cover interiors surfaces and the atmospheres of major bodies including the earth the book starts with an overview of the solar system and its origin and then takes a look at small bodies such as asteroids comets and meteorites carefully balancing breadth of coverage with depth discovering the solar system second edition offers a comprehensive introduction assuming little prior knowledge includes full coverage of each planet as well as the moon europa and titan the second edition includes new material on exoplanetary systems and a general update throughout presents latest results from the mars rover and cassini huygens missions includes a colour plate section contains stop and think questions embedded in the text to aid understanding along with questions at the end of major sections answers are provided at the end of the book provides summaries at the end of each chapter and a glossary at the end of the book praise for the first edition essential reading for all undergraduate students and for those at a more advanced level approaching the subject for the first time the science book board book review one of the best books on the solar system i have seen the general accuracy and quality of the content is excellent journal of the british astronomical association

there are nine known planets in our solar system they are the inner planets otherwise called as the terrestrial planets and the outer or jovian planets recently scientists have re categorized pluto as a dwarf planet in this book you will read about the characteristics of these nine planets and how they revolve around the sun buy a copy and start reading today

presents an introduction to the solar system and provides information on the sun its planets and their moons

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 cambridge.org/solarsystem3 which include selected figures from the book self assessment questions and sample tutor assignments with outlines of suggested answers

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