

How did our solar system come to be?

It all began about 4.6 billion years ago in a wispy cloud of gas and dust.

At some point, part of the cloud collapsed in on itself—possibly because the shockwave of a nearby supernova explosion caused it to compress.

The result: a flat spinning disk of dust and gas.

When enough material collected at this disk's center, nuclear fusion began. Our sun was born. It gobbled up 99.9% of all the material.

These clumps became planets, dwarf planets, asteroids, comets, and moons.

Nuclear fusion occurs when hydrogen atoms fuse into helium.

The material left behind by the sun clumped together into bigger and bigger pieces.

Only rocky things could survive close to the sun, so gaseous and icy material collected further away. That's how our solar system came to be the place it is today!

Comets and asteroids are the left over remains of the solar system's formation.

4.6 Billion Years Ago

Present

Origin And Evolution Of The Solar System

Stuart Ross Taylor



Origin And Evolution Of The Solar System:

The Origin and Evolution of the Solar System Michael M. Woolfson, 2000-01-01 The origin of the solar system has been a matter of speculation for many centuries and since the time of Newton it has been possible to apply scientific principles to the problem A succession of theories starting with that of Pierre Laplace in 1796 has gained general acceptance only to fall from favor due to its contradiction in some basic scientific principle or new heavenly observation Modern observations by spacecraft of the solar system the stars and extra solar planetary systems continuously provide new information that may be helpful in finding a plausible theory as well as present new constraints for any such theory to satisfy The Origin and Evolution of the Solar System begins by describing historical pre 1950 theories and illustrating why they became unacceptable The main part of the book critically examines five extant theories including the current paradigm the solar nebula theory to determine how well they fit with accepted scientific principles and observations This analysis shows that the solar nebula theory satisfies the principles and observational constraints no better than its predecessors The capture theory put forward by the author fares better and also indicates an initial scenario leading to a causal series of events that explain all the major features of the solar system

Solar System Evolution Stuart Ross Taylor, 2005-07-14 This completely rewritten new edition begins with a historical perspective of the place of the solar system in the universe Evidence from meteorites is used to describe how the planets were formed and the giant planets are considered in the light of the discovery of new extrasolar giants Other chapters discuss satellites comets centaurs asteroids and why Pluto is not a planet Explanations on why Earth and Venus turned out so differently and how Mars and Mercury are the survivors of many similar bodies are also discussed

The Origin and Evolution of the Solar System Michael Mark Woolfson, 2000 The origin of the solar system has been a matter of speculation for many centuries and since the time of Newton it has been possible to apply scientific principles to the problem A succession of theories starting with that of Pierre Laplace in 1796 has gained general acceptance only to fall from favor due to its contradiction in some basic scientific principle or new heavenly observation Modern observations by spacecraft of the solar system the stars and extra solar planetary systems continuously provide new information that may be helpful in finding a plausible theory as well as present new constraints for any such theory to satisfy The Origin and Evolution of the Solar System begins by describing historical pre 1950 theories and illustrating why they became unacceptable The main part of the book critically examines five extant theories including the current paradigm the solar nebula theory to determine how well they fit with accepted scientific principles and observations This analysis shows that the solar nebula theory satisfies the principles and observational constraints no better than its predecessors The capture theory put forward by the author fares better and also indicates an initial scenario leading to a causal series of events that explain all the major features of the solar system

Formation Of The Solar System, The: Theories Old And New (2nd Edition) Michael Mark Woolfson, 2014-09-11 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

From Dust to Life John Chambers, Jacqueline Mitton, 2017-05-02 The remarkable story of how our solar system came to be The birth and evolution of our solar system is a tantalizing mystery that may one day provide answers to the question of human origins From Dust to Life 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

ORIGIN & EVOLUTION OF THE SOLAR SYSTEM. F.L. WHIPPLE, [Planetary Geology in the 1980s](#) Joseph Veverka, 1985

Solar System Evolution Stuart Ross Taylor, 2001-09-06 Publisher Description **Creation** Barry R. Parker, 2013-11-11 I remember once watching a presentation of the creation of the universe in a planetarium It was a fascinating experience lights flashing particles appearing to rush by as an explosive roar echoed throughout the

planetarium Then suddenly black ness And after a few seconds tiny lights stars blinking into existence I tried to imagine myself actually going back to this event Was this really what it was like It was an interesting facsimile but far from what the real thing would have been like The creation of the universe is an event that is impossible to imagine accurately Fortunately this has not discouraged people from wondering what it was like In Creation I have attempted to take you back to the beginning the big bang explosion so that you can watch the universe grow and evolve Starting with the first fraction of a second I trace the universe from its initial dramatic expansion through to the formation of the first nuclei and atoms From here I go to the formation of galaxies and the curious distribution they have taken in space Finally I talk about the formation of elements in stars and the first life on the planets around them

Formation Of The Solar System, The: Theories Old And New Michael Mark Woolfson, 2007-10-29 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 standard model the Solar Nebula Theory 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

International Conference "Origin and Evolution of the Solar System", 1991 **Origin and Evolution of Planetary and Satellite Atmospheres** Sushil K. Atreya, J. B. Pollack, Mildred Shapley Matthews, 1989-05-01 An integrated discussion of the similarities and differences between the atmospheres of various bodies of the solar system including the Earth

Scientific and Technical Aerospace Reports, 1992 Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 1997: National Aeronautics and Space Administration United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies, 1996 *Origin Through Evolution* Nathan Fasten, 1929 *1985 Long-range Program Plan* United States. National Aeronautics and Space Administration, 1984

NASA 1986 Long-range Program Plan United States. National Aeronautics and Space Administration, 1985 **The Comparative Study of the Planets** A. Coradini, M. Fulchignoni, 2012-12-06 The volume gathers the prominent works by participants in the NATO Advanced Study Institute liThe Comparative Study of the Planets which was held at Vulcano Aeolian Islands from September 14 to September 25 1981 The book is intended to be a landmark for all those interested in the problems disclosed through the close up exploration of planets and satellites either for professional reasons or Simply for scientific knowledge The topics dealt with concern all methodologies by which the members of the Solar System have been

studied and the audience to whom the volume is addressed is in addition to the experts mainly graduate and post graduate students attending courses in Earth Sciences Physics and Astronomy The aim we intend to achieve in editing this volume is to offer to planetologists an overview of the present state of knowledge using the comparative study of the planets as a basis on which to build the themes treated We think it is one of the few publications of this type which includes all the subjects concerning the study of a planet We hope we have succeeded in conveying through the book the message which was clearly expressed by the lecturers of the ASI in Vulcano what counts most at this stage of planetary research is to be able to single out the fundamental problems and choose the appropriate set of data to use in approaching these problems

Planetary Astrobiology Victoria Meadows, Giada Arney, Britney Schmidt, David J. Des Marais, 2020-07-07 Are we alone in the universe How did life arise on our planet How do we search for life beyond Earth These profound questions excite and intrigue broad cross sections of science and society Answering these questions is the province of the emerging strongly interdisciplinary field of astrobiology Life is inextricably tied to the formation chemistry and evolution of its host world and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability informing the search for life in our solar system and beyond Planetary Astrobiology brings together current knowledge across astronomy biology geology physics chemistry and related fields and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions Planetary Astrobiology represents the combined efforts of more than seventy five international experts consolidated into twenty chapters and provides an accessible interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology planetary science and exoplanet communities enabling a new era of comparative planetology that encompasses conditions and processes for the emergence evolution and detection of life

Water Worlds in the Solar System Antony Joseph, 2022-11-25 Water Worlds in the Solar System In Search of Habitable Environments and Life is a comprehensive reference on the formation availability habitability potential and astrobiological implications of water in the Solar System The book provides understanding of the importance of water on Earth to elucidate potential water and biosignature sources on other bodies in the Solar System It covers processes involved in the formation of Earth and its Moon genesis of water on those bodies events on early Earth and other processes that are applicable to celestial bodies in the Solar System directly correlating data available on water on other bodies to over 15 Earth analogue sites This book forms a comprehensive overview on water in the Solar System from formation to biosignature and habitability considerations It is ideal for academics researchers and students working in the field of planetary science extraterrestrial water research and habitability potential Presents a comprehensive reference on water in the Solar System developing

readers understanding of the importance and occurrence of water on Earth and beyond all from an oceanographer's perspective Contrasts terrestrial analogues in relation to their roles in understanding and exploring ocean worlds and habitability Includes numerous figures illustrations tables and videos to help readers better understand concepts covered

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