



# The Origin of the Solar System

# The Origin Of The Solar System

**Walter William Rouse Ball**



## **The Origin 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

[The Origin of the Solar System](#) A.E. Levin, Stephen G. Brush, 1995  
Throughout this century Soviet scientists had strongly influenced Western research on the origin of the solar system Now this volume offers a comprehensive overview of Soviet research in planetary cosmogony from the last eight decades It opens with a selection of the seminal papers of Otto Schmidt some of which were never published in English The book also includes a compendium of articles illuminating such topics as the protoplanetary cloud the formation of the Earth and other terrestrial planets the origin of the moon as well as asteroids comets and meteorites

**The Origin of the Solar System** S. F. Dermott, 1978

**The Origin of the Solar System** Thornton Page, Lou Williams Page, 1966

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

**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

[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

**The Origin of Our Planetary System** Eugene Miller,1918 On the Origin of the Solar System Hannes Alfvén,1967 A theory of the origin of the solar system is discussed including introduction and general principles accretion of planets partial corotation of a magnetized plasma and the structure of the Saturnian rings Author *The Earth and Its History* John Hodgdon Bradley,1928 *The origin of the solar system: genesis of the sun and planets, and life on other worlds, ed ,* 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 a

**Geology: Earth history: genesis, paleozoic. [1907] xxiv, 692 p** Thomas Chrowder Chamberlin,Rollin D. Salisbury,1907 *The Origin of the Solar System* John R. Dormand,M. M. Woolfson,1989 **Geology: Earth history: Genesis** Thomas Chrowder Chamberlin,Rollin D. Salisbury,1905 *Geology: Earth history : genesis-Paleozoic* Thomas Chrowder Chamberlin,Rollin D. Salisbury,1909 A Short Account of the History of Mathematics Walter William Rouse Ball,1915 **The Source Book** William Francis Rocheleau,1926 **Methodist Magazine and Quarterly Review** ,1877 **Christian Faith and Life** ,1928

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