



# Origins of Magnetospheric Physics

James A. Van Allen

# Origins Of Magnetospheric Physics

**PT Brinkman**



## **Origins Of Magnetospheric Physics:**

*Origins Of Magnetospheric Physics* James A. Van Allen, 2004-10 Early in 1958 instruments on the space satellites Explorer I and Explorer III revealed the presence of radiation belts enormous populations of energetic particles trapped in the magnetic field of the earth Originally published in 1983 but long out of print until now *Origins of Magnetospheric Physics* tells the story of this dramatic and hugely transformative period in scientific and Cold War history Writing in an accessible style and drawing on personal journals correspondence published papers and the recollections of colleagues James Van Allen documents a trail blazing era in space history

**Origins of Magnetospheric Physics** James Alfred Van Allen, 1983 **A Brief History of Magnetospheric Physics Before 1957** David Peter Stern, Laboratory for Extraterrestrial Physics (Goddard Space Flight Center), 1988 **The Earth Inside and Out** David Roger Oldroyd, 2002 *James Van Allen* Abigail Foerstner, 2009-06 Astrophysicist and space pioneer James Van Allen 1914-2006 for whom the Van Allen radiation belts were named was among the principal scientific investigators for twenty four space missions including Explorer I in 1958 the first successful U S satellite Mariner 2's 1962 flyby of Venus the first successful mission to another planet and the 1970s Pioneer 10 and Pioneer 11 missions that surveyed Jupiter and Saturn Although he retired as a University of Iowa professor of physics and astronomy in 1985 he remained an active researcher using his campus office to monitor data from Pioneer 10 on course to reach the edge of the solar system when its signal was lost in 2003 until a short time before his death at the age of ninety one Now Abigail Foerstner blends space science drama military agendas cold war politics and the events of Van Allen's lengthy career to create the first biography of this highly influential physicist Drawing on Van Allen's correspondence and publications years of interviews with him as well as with more than a hundred other people and declassified documents from such archives as the Jet Propulsion Laboratory the Kennedy Space Center and the Applied Physics Laboratory Foerstner describes Van Allen's life from his Iowa childhood to his first experiments at White Sands to the years of Explorer I until his death in 2006 Often called the father of space science James Van Allen led the way to mapping a new solar system based on the solar wind massive solar storms and cosmic rays Pioneer 10 alone sent him more than thirty years of readings that helped push our recognition of the boundary of the solar system billions of miles past Pluto Abigail Foerstner's compelling biography charts the eventful life and time of this trailblazing physicist

**On the Origin of Myths in Catastrophic Experience, vol. 1: Preliminaries** Marinus Anthony van der Sluijs, 2019-01-01 Creation myths around the world reveal an intricate network of recurrent motifs Many of these are counterintuitive and not widely known describing a time when the sky was low the stars did not yet shine multiple suns appeared the moon was brighter than the sun no land existed deities and mortals maintained frequent contact a world axis in the form of a tree ladder or giant man connected the earth with the sky a devastating flood or fire ended the old order and so forth The present work in multiple volumes aims to find an origin for this cross culturally and internally consistent body of traditions in a series of extraordinary natural events relating especially to

the earth's transition from the last glacial period to the Holocene. This first volume sets the stage for the interdisciplinary hypothesis. Essential lines of research receive a historical introduction: comparative mythology, catastrophism, and the study of the mythical world axis in relation to the earth's rotation. Various astronomical and meteorological interpretations that are not strictly catastrophist are explored for several types of myths about the sun, the moon, and the world axis, but leave many of the most intriguing traditions unexplained. It is argued that a structural core of the worldwide mythology of creation and destruction, in which the cosmic axis takes pride of place, points to a specific period of dramatic natural circumstances in real prehistoric time. A new synopsis is provided of this universal mythological substrate. It emerges that the mythical world axis cannot have been based on a single object seen or imagined at one of the poles, as has usually been supposed. This surprising conclusion paves the way for the innovative geomagnetic theory proposed in volume 2.

**THE TRUTH OF THE ORIGIN OF THE UNIVERSE** Sabrie Soloman, 2024-06-12. Creation: Big Bang, Science Fiction or Science Madness. The debate between creationism and scientific theories of the origin of the universe has been an ongoing and contentious one. On one side, we have the belief in a divine Creator who is responsible for the creation of the world in six days as described in the Bible. On the other side, we have scientific theories such as the Big Bang, which posits that the universe began with a massive explosion around 13.8 billion years ago. For those who adhere to the belief in a Creator, the concept of a six-day creation holds immense significance. This belief is rooted in faith and is a fundamental tenet of many religious traditions. The idea that a higher power carefully constructed the universe day by day is a source of comfort and meaning for many people. Some may argue that the Big Bang theory is nothing more than science fiction or science madness, dismissing it as a fanciful and unsubstantiated idea.

[A Brief History of Magnetospheric Physics During the Space Age](#) David Peter Stern, American Geophysical Union, 1996. After 1958, when scientific satellites began exploring the Earth's magnetic environment, many puzzling phenomena could be directly examined, especially the polar aurora and disturbances of the Earth's magnetic field (see Stern 1989a). The notion of the solar wind, also introduced in 1958, helped clarify the role of the Sun in driving such phenomena. The large-scale structure of the magnetosphere, the space region dominated by the Earth's magnetic field, was gradually revealed within the next decade: its trapped particles, its boundary, and its long magnetic tail on the nightside. Inevitably, however, at a more fundamental level, the new discoveries led to new questions about the transfer of energy, the flow patterns of plasmas and electric currents, the acceleration of the aurora, and transient events such as magnetic substorms and storms, which energized ions and electrons. Though significant progress has occurred in some of these areas, many unresolved issues still remain. This review outlines the history of magnetospheric research, draws some general conclusions, and provides an extensive bibliography.

**Opening Space Research** George H. Ludwig, 2013-05-09. Published by the American Geophysical Union as part of the Special Publications Series. Opening Space Research: Dreams, Technology, and Scientific Discovery is George Ludwig's account of the early development of space-based electromagnetic physics, with a focus on the first U.S. space

launches and the discovery of the Van Allen radiation belts Narrated by the person who developed many of the instruments for the early Explorer spacecraft during the 1950s and participated directly in the scientific research it draws heavily upon the author's voluminous collection of laboratory notes and other papers upon the Van Allen archive and upon a wide array of other sources This book presents very detailed discussions of historic events in a highly readable semitechnical first person form More than that though Opening Space Research brings to the forefront the entire team of scientists who made these accomplishments possible providing an extensive index of names to enhance and complete the historical record Authoritative and unique this book will be of interest to space scientists science historians and anyone interested in space history and the first U S space launches

**History of Rocketry and Astronautics** Roger D. Launius,1994 **History of Rocketry and Astronautics** ,1994 **Astrophysics, Astronomy and Space Sciences in the History of the Max Planck Society** Luisa Bonolis,Juan-Andres Leon,2022-12-05

This book provides the first comprehensive historical account of the evolution of scientific traditions in astronomy astrophysics and the space sciences within the Max Planck Society Structured with in depth archival research interviews with protagonists unpublished photographs and an extensive bibliography it follows a unique history from the post war relaunch of physical sciences in West Germany to the spectacular developments and successes of cosmic sciences in the second half of the 20th century up to the emergence of multi messenger astronomy It reveals how the Society acquired national and international acclaim in becoming one of the world's most productive research organizations in these fields

*The Century of Space Science* J.A. Bleeker,Johannes Geiss,M. Huber,2012-12-06 One of the most attractive features of the young discipline of Space Science is that many of the original pioneers and key players involved are still available to describe their field Hence at this point in history we are in a unique position to gain first hand insight into the field and its development To this end *The Century of Space Science* a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century The level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved With over 90 world class contributors such as James Van Allen Cornelis de Jager Eugene Parker Reimar Lüst and Ernst Stuhlinger and with a Foreword by Lodewijk Woltjer past ESO Director General this book will be immensely useful to readers in the fields of space science astronomy and the history of science Both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection

**Exploring the Unknown** ,1995 *Science in the Twentieth Century* John Krige,Dominique Pestre,2013-11-19 With over forty chapters written by leading scholars this comprehensive volume represents the best work in America Europe and Asia Geographical diversity of the authors is reflected in the different perspectives devoted to the subject and all major disciplinary developments are covered There are also sections concerning the countries that have made the most significant contributions the relationship between science and industry the importance of instrumentation and the cultural influence of scientific

modes of thought Students and professionals will come to appreciate how and why science has developed as with any other human activity it is subject to the dynamics of society and politics      Generation-to-Generation Communications in Space Physics Joseph E. Borovsky,Elena E. Grigorenko,Jorge Luis Chau,Yoshizumi Miyoshi,Maria Usanova,Georgia Adair De Nolfo,Antonella Greco,Noora Partamies,2023-06-08      **Exploring the Unknown: Selected Documents in the History of the U.S. Civilian Space Program** John M. Logsdon,1996      **Exploring the Unknown** John M. Logsdon,1995

**Companion Encyclopedia of Science in the Twentieth Century** John Krige,Dominique Pestre,2013-11-05 With over forty chapters written by leading scholars this comprehensive volume represents the best work in America Europe and Asia Geographical diversity of the authors is reflected in the different perspectives devoted to the subject and all major disciplinary developments are covered There are also sections concerning the countries that have made the most significant contributions the relationship between science and industry the importance of instrumentation and the cultural influence of scientific modes of thought Students and professionals will come to appreciate how and why science has developed as with any other human activity it is subject to the dynamics of society and politics      Guide to the the [sic] James A. Van Allen Papers and Related Collections Christine D. Halas,University of Iowa Archives,1993

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