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The Late Heavy Bombardment (LHB), or lunar cataclysm, is a hypothesized event thought to have occurred approximately 4.1 to 3.8 billion years (Ga) ago, at a time

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corresponding to the Neohadean and Eoarchean eras on Earth. During this interval, a disproportionately large number of asteroids are theorized to have collided with the early terrestrial planets in the inner Solar System, including ...

Late Heavy Bombardment - Wikipedia

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They are composed of rock, dust, water
ice and frozen gases such as carbon

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The nucleus is a solid body typically a few kilometres in diameter and made up of a

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mixture of volatile ices (predominantly water ice) and silicate and organic dust particles. The coma is the freely escaping atmosphere around the nucleus that forms when the comet comes close to the Sun and the volatile ices sublimate, carrying with them dust particles that are intimately mixed with the frozen ices in the nucleus.

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E-belt asteroids - Wikipedia

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Significant achievements have been made at the cross-roads of physics and planetary science. In the second half of the twentieth century, the discipline of planetary sciences has witnessed three major episodes which have revolutionized its approach and content: (i) the plate-tectonic theory, (ii) human landing and discoveries

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in planetary astronomy and (iii) the extraordinary technical advancement in high P-T studies, which have been abetted by a vast improvement in computational methods. Using these new computational methods, such as first principles including ab initio models, calculations have been made for the electronic structure, bonding,

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thermal EOS, elasticity, melting, thermal conductivity and diffusivity. In this monograph, the boundaries of the definitions of a petrologist, geochemist, geophysicist or a mineralogist have been willfully eliminated to bring them all under the spectrum of "high-pressure geochemistry" when they deal with any

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material (quintessentially a chemical assemblage) - terrestrial or extraterrestrial - under the conditions of high-pressure and temperature. Thus, a petrologist using a spectrometer or any instrument for high-pressure studies of a rock or a mineral, or a geochemist using them for chemical synthesis and characterization, is better

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categorized as a "high-pressure geochemist" rather than any other kind of disciplinarian. The contents of this monograph bring together, under one cover, apparently disparate disciplines like solid-earth geophysics and geochemistry as well as material science and condensed-matter physics to present a thorough

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overview of high pressure geochemistry. Indeed, such interdisciplinary activities led to the discovery of new phenomena such as high P-T behaviour in metal oxides (e.g. Mott transition), novel transitions such as amorphization, changes in order-disorder in crystals and the anomalous properties of oxide melts.

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Two models for the origin of the Solar System, the Nebula Theory and the Capture Theory, are discussed by protagonists, Simon and Steven respectively, in the presence of Solomon, who oversees the discussions. Modelled on Galileo's Dialogue Concerning the Two

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Chief World Systems, this book provides new insight into different theories of cosmogony. The Nebula Theory, at present the standard model of planet formation, proposes that a star and planets are derived from a single spinning nebula. Woolfson here introduces an alternative, the Capture Theory, in which planets are

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produced from a protostar tidally disrupted by a condensed star which 'captures' most of the formed planets into orbits. These complex ideas are simplified and presented in an easily understandable, accessible way for all students of physics, astronomy, cosmology and those interested in the beginning of our world as

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we know it. This volume integrates the latest findings on earliest life forms, identified and characterised in some of the oldest rocks on Earth. New material from prominent researchers in the field is presented and evaluated in the context of previous work.

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Emphasis is placed on the integration of analytical methods with observational techniques and experimental simulations.

The opening section focuses on submarine hot springs that the majority of researchers postulates served as the cradle of life on Earth. In subsequent sections, evidence for life in strongly metamorphosed rocks such

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as those in Greenland is evaluated and early ecosystems identified in the well preserved Barberton and Pilbara successions in Southern Africa and Western Australia. The final section includes a number of contributions from authors with alternate perspectives on the evidence and record of early life on Earth.

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Audience This volume will be valuable to researchers and graduate students in biogeosciences, geochemistry, paleontology and geology interested in the origin of life on earth.

“The Early Evolution of the Atmospheres of Terrestrial Planets” presents the main

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atmospheres of terrestrial planets is directly associated with accretion, chemical differentiation, outgassing, stochastic impacts, and extremely high energy fluxes from their host stars. This book provides an overview of the present knowledge of the initial atmospheric composition of the terrestrial planets.

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Additionally it includes some papers about the current exoplanet discoveries and provides additional clues to our understanding of Earth's transition from a hot accretionary phase into a habitable world. All papers included were reviewed by experts in their respective fields. We are living in an epoch of important

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exoplanet discoveries, but current properties of these exoplanets do not match our scientific predictions using standard terrestrial planet models. This book deals with the main physio-chemical signatures and processes that could be useful to better understand the formation of rocky planets.

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'A promising debut.' New Scientist Icy, rocky, sometimes dusty, always mysterious – comets and asteroids are among the Solar System's very oldest inhabitants, formed within a swirling cloud of gas and dust in the area of space that eventually hosted the Sun and its

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planets. Locked within each of these extra-terrestrial objects is the 4.6-billion-year wisdom of Solar System events, and by studying them at close quarters using spacecraft we can coerce them into revealing their closely-guarded secrets. This offers us the chance to answer some fundamental questions about our planet

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and its inhabitants. Exploring comets and asteroids also allows us to shape the story of Earth's future, enabling us to protect our precious planet from the threat of a catastrophic impact from space, and maybe to even recover valuable raw materials from them. This cosmic bounty could be as useful in space as it is on

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