

HABITABILITY OF THE UNIVERSE BEFORE EARTH

Volume Editors: Richard Gordon and Alexei Sharov

A fascinating examination of the physical environments in the universe capable of supporting the origin and evolution of life, especially before the Earth formed

- Highlights multiple hypotheses on the origin of life and distribution of living organisms in space and time
- Explores the diversity of physical environments that may support the origin and evolution of life
- Integrates contemporary views in biology and cosmology and provides reasons that life may be far more mobile in space than most people expect

Habitability of the Universe before Earth examines the times and places—before life existed on Earth—that might have provided suitable environments for life to occur. It addresses the central question: Is life on Earth *de novo*, or derived from previous life? The book explores the physical and chemical constraints on life in the universe, predicts the habitability of various regions of space versus time, elaborates on life on the cosmic scale, and illuminates the system properties of life throughout the universe. **Habitability of the Universe before Earth** is a valuable reference for researchers in many branches of both life sciences and space and planetary sciences, including astrobiologists, biologists, evolutionary scientists, geophysicists, astronomers, geochemists, oceanographers, and more.

The **Astrobiology: Exploring Life on Earth and Beyond** series covers a broad range of topics encompassing research into the origins and evolution of life on Earth, life in extreme environments, and the search for habitable environments in our Solar System and beyond. Providing an interdisciplinary approach to these complex topics, the series is a reliable source of the most updated information for understanding the past, present, and future of life throughout the universe.

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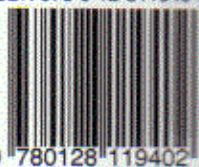


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