

Astrobiology: An Evolutionary Approach



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Astrobiology: An Evolutionary Approach provides a full course in astrobiology with an emphasis on abiogenesis and evolution. The book presents astrobiology both as a developing science and as the science of the future.

The origins of life and the possibility of life elsewhere continues to be a subject of scientific and philosophical examination. These topics evolve with time as our understanding of life itself and the laws of chemical and biological evolution evolve. **Astrobiology: An Evolutionary Approach** aims both to provide a foundation in astrobiology and to describe the most challenging questions and problems in the field.

The book begins with an overview of astrobiology, the origin of elements, and the formation of the solar system, planets, and exoplanets. Other topics covered include prebiotic synthesis of biochemical compounds, transition from abiotic to biotic, microorganisms in space, the roles of silicon in life, encapsulation of organic materials in protocells, cold and dry limits of life, virolution, and more.

The contributors explore different aspects of astrobiology, reflecting the exciting journeys of their own research. This book will inspire students to explore the endless possibilities in astrobiology. The book includes end-of-chapter questions, a glossary of terms, and recommended references, making it ideal for use as a classroom text.

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