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2014, conference historical introduction talk at Institut d'Astrophysique de ... and 28 co-authors including Backman, Dana E., 2007, Astrobiology, 7, 30. (11) "Discovery of Two T Dwarf Companions with ...

## ~~Dana Backman~~

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The three authors, who have been active researchers in this region over a number of years, have designed Terahertz Techniques to be both a general introduction to the subject and a definitive ...

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“The NASA Ames PAH IR spectroscopic database: computational version 3.00 with updated content and the introduction of multiple scaling ... Jones, S. V. Hoffmann, *Astrobiology* (2014) 14, 87. “The NASA ...

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~~Carson City woman arrested for DUI after 'tumbling' to her vehicle following restaurant meal | Carson City Nevada News - Carson Now~~

Carson City's longtime beloved bookstore, Morley's Books, is going out of business, and will have a sale of all of their inventory this Friday, Aug. 13. In addition to the inventory of the bookstore ...

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This well-balanced program covers the broad field of chemistry and can be used as an introduction to chemistry or to strengthen your current knowledge.



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~~Announcing the new book—Space Marketing: Competing in the new commercial space industry~~

The first hire at ispace US, Kursten joined ispace following seven years at SpaceX, where she managed new product introduction for the rocket manufacturer's fleet of Falcon vehicles.

This updated third edition explores the origin and nature of life,

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habitable environments in our solar system and exoplanet discoveries.

From neutron star mergers to the survival skills of tardigrades, this fascinating book is an ideal primer for students or anyone curious about life and the Universe.

Astrobiology is a multidisciplinary pursuit that in various guises encompasses astronomy, chemistry, planetary and Earth sciences, and biology. It relies on mathematical, statistical, and computer modeling for theory, and space science, engineering, and computing to implement observational and experimental work. Consequently, when studying astrobiology, a broad scientific canvas is needed. For example, it is now clear that the Earth operates as a system; it is no

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longer appropriate to think in terms of geology, oceans, atmosphere, and life as being separate. Reflecting this multiscience approach, *Astrobiology: An Introduction*: Covers topics such as stellar evolution, cosmic chemistry, planet formation, habitable zones, terrestrial biochemistry, and exoplanetary systems Discusses the origin, evolution, distribution, and future of life in the universe in an accessible manner, sparing calculus, curly arrow chemistry, and modeling details Contains problems and worked examples, and includes a solutions manual with qualifying course adoption *Astrobiology: An Introduction* provides a full introduction to astrobiology suitable for university students at all levels.

Examines the origins of life on Earth and the search for extraterrestrial life, through an understanding of the factors that

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have allowed life to exist on this planet and the commonalities on others that may enable life elsewhere.

Informed by new planetary discoveries and the findings from recent robotic missions to Mars, Jupiter, and Saturn, scientists are rapidly replacing centuries of speculation about potential extraterrestrial habitats with real knowledge about the possibility of life outside our own biosphere -- if it exists, and where. This second edition of Kevin W. Plaxco and Michael Gross's widely acclaimed text incorporates the latest research in astrobiology to bring readers the most comprehensive, up-to-date, and engaging introduction to the field available. Plaxco and Gross expand their examination of the origin of chemical elements, the developments that made the Universe habitable, and how life continues to be sustained. They

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discuss in great detail the formation of the first galaxies and stars, the diverse chemistry of the primordial planet, the origins of metabolism, the evolution of complex organisms, and the feedback regulation of Earth's climate. They also explore life in extreme habitats, potential extraterrestrial habitats, and the current status of the search for extraterrestrial life. Weaving together the relevant threads of astronomy, geology, chemistry, biophysics, and microbiology, this broadly accessible introductory text captures the excitement, controversy, and progress of the dynamic young field of astrobiology. New to this edition is a glossary of terms and an epilogue recapping the key unanswered questions, making *Astrobiology* an ideal primer for students and, indeed, for anyone curious about life and the Universe. Praise for the first edition of *Astrobiology* "Certainly the most readable introduction to

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astrobiology now available." -- Chemical and Engineering News  
"Plaxco and Gross bring us as close to aliens as we can currently get. I recommend this book to anyone interested in science's newest kid on the block." -- Astronomy Now "A good read for all those who are fascinated by the search for extraterrestrial life and the origin of life on our own planet. I shall certainly value it in my own library." -- Chemistry World "An accessible guide to this young and interdisciplinary field." -- Physics World "The fascinating world of extremophiles is well presented, and a broad overview of the searches for evidence of life beyond Earth rounds off the book. The text is liberally illustrated with relevant figures that greatly enhance the content, and entertaining snippets of information detailing the quirks of research in this field nicely supplement the scientific content." -- Astrobiology "A comprehensive yet concise

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introduction to the field." -- The Space Review

Astrobiology, the study of life and its existence in the universe, is one of the hottest areas of scientific research. Lewis Dartnell considers some of the fascinating questions facing researchers today. Could life exist anywhere else in the universe? What might aliens really look like? Dartnell explains why Earth is uniquely suited for life and reveals our profound connection to the cosmos.

This work is aimed at the upper-level astrobiology course and places a strong emphasis on the astronomy perspective.

Astrobiology is an interdisciplinary field that asks profound scientific questions. How did life originate on the Earth? How has



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life persisted on the Earth for over three billion years? Is there life elsewhere in the Universe? What is the future of life on Earth?

**Astrobiology: Understanding Life in the Universe** is an introductory text which explores the structure of living things, the formation of the elements for life in the Universe, the biological and geological history of the Earth and the habitability of other planets in our own Solar System and beyond. The book is designed to convey some of the major conceptual foundations in astrobiology that cut across a diversity of traditional fields including chemistry, biology, geosciences, physics and astronomy. It can be used to complement existing courses in these fields or as a stand-alone text for astrobiology courses. **Readership:** Undergraduates studying for degrees in earth or life sciences, physics, astronomy and related disciplines, as well as anyone with an interest in grasping some of

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the major concepts and ideas in astrobiology.

"This book: Provides extensive grounding in key issues of astrophysics, chemistry, biology and geophysics; over 150 images and illustrations; exercises for each chapter, ranging from straightforward calculation problems to more far-ranging research-oriented exercises; an online component for users that includes new exercises and a continually updated blog of late-breaking scientific news items, fully cross referenced with the book; and extensive bibliographies for each chapter."--BOOK JACKET.

Astrobiology is an exciting interdisciplinary field that seeks to answer one of the most important and profound questions: are we alone? In this volume, leading international experts explore the

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frontiers of astrobiology, investigating the latest research questions that will fascinate a wide interdisciplinary audience at all levels. What is the earliest evidence for life on Earth? Where are the most likely sites for life in the Solar System? Could life have evolved elsewhere in the Galaxy? What are the best strategies for detecting intelligent extraterrestrial life? How many habitable or Earth-like exoplanets are there? Progress in astrobiology over the past decade has been rapid and, with evidence accumulating that Mars once hosted standing bodies of liquid water, the discovery of over 500 exoplanets and new insights into how life began on Earth, the scientific search for our origins and place in the cosmos continues.

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