

GAIA HYPOTHESIS

- A Biosphere might be self-regulating (controversial)
- Doesn't require any mystical belief – could be an emergent property of interactions among species
- Some examples:
 - Energy provided by the sun has increased 25%-30% since life started on earth, but temperatures have remained habitable
 - Balances achieved in carbon and oxygen
 - Predator/prey cycles
 - An extremely simple example of how this could happen: Daisyworld simulation

Restless Biosphere An Introduction To The Chemistry Of Gaia

Michael Allaby



Restless Biosphere An Introduction To The Chemistry Of Gaia:

The Restless Biosphere Donald R. Eaton,1992 **Whitaker's Books in Print** ,1998 *The Greening* Larry Abraham, Franklin Sanders,1993 The world book encyclopedia ,1997 **Gaia's Body** Tyler Volk,2012-12-06 If the biosphere really is a single coherent system then it must have something like a physiology It must have systems and processes that perform living functions In *Gaia's Body* Tyler Volk describes the environment that enables the biosphere to exist various ways of looking at its anatomy and physiology the major biogeographical regions such as rainforests deserts and tundra the major substances the biosphere is made of and the chemical cycles that keep it in balance He then looks at the question of whether there are any long term trends in the earth's evolution and examines the role of humanity in Gaia's past and future Both adherents and sceptics have often been concerned that Gaia theory contains too much goddess and too few verifiable hypotheses This is the book that describes for scientists students and lay readers alike the theory's firm basis in science Gaia in Turmoil Eileen Crist,H. Bruce Rinker,2009-10-16 Essays link Gaian science to such global environmental quandaries as climate change and biodiversity destruction providing perspectives from science philosophy politics and technology Gaian theory which holds that Earth's physical and biological processes are inextricably bound to form a self regulating system is more relevant than ever in light of increasing concerns about global climate change The Gaian paradigm of Earth as a living system first articulated by James Lovelock and Lynn Margulis in the 1970s has inspired a burgeoning body of researchers working across disciplines that range from physics and biology to philosophy and politics *Gaia in Turmoil* reflects this disciplinary richness and intellectual diversity with contributions including essays by both Lovelock and Margulis that approach the topic from a wide variety of perspectives discussing not only Gaian science but also global environmental problems and Gaian ethics and education Contributors focus first on the science of Gaia considering such topics as the workings of the biosphere the planet's water supply and evolution then discuss Gaian perspectives on global environmental change including biodiversity destruction and global warming and finally explore the influence of Gaia on environmental policy ethics politics technology economics and education *Gaia in Turmoil* breaks new ground by focusing on global ecological problems from the perspectives of Gaian science and knowledge focusing especially on the challenges of climate change and biodiversity destruction Contributors David Abram Donald Aitken Connie Barlow J Baird Callicott Bruce Clarke Eileen Crist Tim Foresman Stephan Harding Barbara Harwood Tim Lenton Eugene Linden Karen Litfin James Lovelock Lynn Margulis Bill McKibben Martin Ogle H Bruce Rinker Mitchell Thomashow Tyler Volk Hywel Williams **Gaia's Body** Tyler Volk,2003 An engagingly readable introduction to the budding new field of Earth physiology *Gaia's Body* blends real science with evocative imagery in describing the biosphere The book explores how every important chemical in the atmosphere is regulated by living processes and examines long term trends in Earth's evolution and humanity's role in Gaia's past and present *Gaia* James Lovelock,2016 *Gaia* in which James Lovelock puts forward his inspirational and controversial idea

that the Earth functions as a single organism with life influencing planetary processes to form a self regulating system aiding its own survival is now a classic work that continues to provoke heated scientific debate A Guide to Gaia Michael Allaby,1990 A technical primer for lay people about the Gaia hypothesis a hypothesis that s rapidly turning into a full scale scientific theory and may have critical import for worldwide environmental policies in the decades to come *Gaia* James E. Lovelock,James Lovelock,2000-09-28 This classic work is reissued with a new preface by the author Written for non scientists the idea is put forward that life on Earth functions as a single organism Gaia James Lovelock,2000 **The Ages of Gaia** James Lovelock,1995 In his first book *Gaia A New Look at Life on Earth* Jim Lovelock proposed a startling new theory of life the Earth its rocks oceans atmosphere and all living things are part of one great organism evolving over the vast span of geological time In this sequel he examines environmental and scientific issues in detail including the greenhouse effect acid rain the depletion of the ozone layer and the destruction of tropical forests **The Ages of Gaia** James Lovelock,J. E. Lovelock,1995 James Lovelock proposes that all living species are components of that organism as cells are components of the human body **Scientists Debate Gaia** Stephen Henry Schneider,2004 Leading scientists bring the controversy over Gaia up to date by exploring a broad range of recent thinking on Gaia theory **Healing Gaia** James Lovelock,J. E. Lovelock,1991 The creator of the Gaia theory that the Earth is a living organism applies the traditional medical disciplines to ecological problems and solutions here are anatomy biochemistry metabolism etc Brightly illustrated with color mostly stylized drawings on nearly every page to appeal to the general reader armchair ecoterrorist and science fiction fan No bibliography Annotation copyrighted by Book News Inc Portland OR *The Gaia Hypothesis* Michael Ruse,2022-12-22 The book is full of empathetic insightful and often very funny portraits of Margulis Lovelock and a community of other figures associated with Gaia Carla Nappi New Books in Science Technology and Society In 1965 English scientist James Lovelock had a flash of insight the Earth is not just teeming with life the Earth in some sense is life He mulled this revolutionary idea over for several years first with his close friend the novelist William Golding and then in an extensive collaboration with the American scientist Lynn Margulis In the early 1970s he finally went public with the Gaia hypothesis the idea that everything happens for an end the good of planet Earth Lovelock and Margulis were scorned by professional scientists but the general public enthusiastically embraced Lovelock and his hypothesis In *The Gaia Hypothesis* philosopher Michael Ruse with his characteristic clarity and wit uses Gaia and its history its supporters and detractors to illuminate the nature of science itself Gaia emerged in the 1960s a decade when authority was questioned and status and dignity stood for nothing but its story is much older Ruse traces Gaia s connection to Plato and a long history of goal directed and holistic or organicist thinking and explains why Lovelock and Margulis s peers rejected it as pseudoscience But Ruse also shows why the project was a success He argues that Lovelock and Margulis should be commended for giving philosophy firm scientific basis and for provoking important scientific discussion about the world as a whole its homeostasis or in this age of global environmental uncertainty

its lack thereof Ruse's treatment is thought provoking and original as you would expect from this perceptive irrepressible philosopher of biology *New Scientist* **James Lovelock** John Gribbin, Mary Gribbin, 2021-07-13 In 1972 when James Lovelock first proposed the Gaia hypothesis the idea that the Earth is a living organism that maintains conditions suitable for life he was ridiculed by the scientific establishment Today Lovelock's revolutionary insight though still extremely controversial is recognized as one of the most creative provocative and captivating scientific ideas of our time James Lovelock tells for the first time the whole story of this maverick scientist's life and how it served as a unique preparation for the idea of Gaia Drawing on in depth interviews with Lovelock himself and unprecedented access to his private papers John and Mary Gribbin paint an intimate and fascinating portrait of a restless uniquely gifted freethinker In a lifetime spanning almost a century Lovelock has followed a career path that led him from chemistry to medicine to engineering to space science He worked for the British secret service and contributed to the success of the D Day landings in World War II He was a medical experimenter and an accomplished inventor And he was working with NASA on methods for finding possible life on Mars when he struck upon the idea of Gaia conceiving of the Earth as a vast living self regulating system Deftly framed within the context of today's mounting global warming crisis James Lovelock traces the intertwining trajectories of Lovelock's life and the famous idea it brought forth which continues to provoke passionate debate about the nature and future of life on our planet **The Sweet One Hundred** Philip G. Simpson, New Zealand. Department of Conservation. Science and Research Directorate, 1989 *On Gaia* Toby Tyrrell, 2013-07-21 A critical examination of James Lovelock's controversial Gaia hypothesis One of the enduring questions about our planet is how it has remained continuously habitable over vast stretches of geological time despite the fact that its atmosphere and climate are potentially unstable James Lovelock's Gaia hypothesis posits that life itself has intervened in the regulation of the planetary environment in order to keep it stable and favorable for life First proposed in the 1970s Lovelock's hypothesis remains highly controversial and continues to provoke fierce debate *On Gaia* undertakes the first in depth investigation of the arguments put forward by Lovelock and others and concludes that the evidence doesn't stack up in support of Gaia Toby Tyrrell draws on the latest findings in fields as diverse as climate science oceanography atmospheric science geology ecology and evolutionary biology He takes readers to obscure corners of the natural world from southern Africa where ancient rocks reveal that icebergs were once present near the equator to mimics of cleaner fish on Indonesian reefs to blind fish deep in Mexican caves Tyrrell weaves these and many other intriguing observations into a comprehensive analysis of the major assertions and lines of argument underpinning Gaia and finds that it is not a credible picture of how life and Earth interact *On Gaia* reflects on the scientific evidence indicating that life and environment mutually affect each other and proposes that feedbacks on Earth do not provide robust protection against the environment becoming uninhabitable or against poor stewardship by us **The Medea Hypothesis** Peter Ward, 2009-03-31 In *The Medea Hypothesis* renowned paleontologist Peter Ward proposes a revolutionary and provocative

vision of life's relationship with the Earth's biosphere one that has frightening implications for our future yet also offers hope. Using the latest discoveries from the geological record he argues that life might be its own worst enemy. This stands in stark contrast to James Lovelock's Gaia hypothesis, the idea that life sustains habitable conditions on Earth. In answer to Gaia, which draws on the idea of the good mother who nurtures life, Ward invokes Medea, the mythical mother who killed her own children. Could life by its very nature threaten its own existence? According to the Medea hypothesis, it does. Ward demonstrates that all but one of the mass extinctions that have struck Earth were caused by life itself. He looks at our planet's history in a new way, revealing an Earth that is witnessing an alarming decline of diversity and biomass, a decline brought on by life's own biocidal tendencies. And the Medea hypothesis applies not just to our planet; its dire prognosis extends to all potential life in the universe. Yet life on Earth doesn't have to be lethal. Ward shows why but warns that our time is running out. Breathtaking in scope, The Medea Hypothesis is certain to arouse fierce debate and radically transform our worldview. It serves as an urgent challenge to all of us to think in new ways if we hope to save ourselves from ourselves.

Immerse yourself in the artistry of words with is expressive creation, **Restless Biosphere An Introduction To The Chemistry Of Gaia** . This ebook, presented in a PDF format (PDF Size: *), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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