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Titolo	The Nature of Life and Its Potential to Survive / / by David S. Stevenson
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ISBN	3-319-52911-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XV, 456 p. 70 illus., 69 illus. in color.)
Collana	Astronomers' Universe, , 1614-659X
Disciplina	520
Soggetti	Astronomy
	Astrobiology
	Evolutionary biology
	Planetology
	Popular Science in Astronomy
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface Chapter 1 – What is Life? Chapter 2 – Life's Grand Themes Chapter 3 – The Origin of Life on Earth Chapter 4 – Life as the Evolution of Information Chapter 5 – Life Jim, But Not as We Know It Chapter 6 - Extinction Chapter 7- Agents of Mass Destruction Chapter 8 - Ultimately, Can Life Survive? Chapter 9 - A Thesis on Life, the Universe and Almost Everything Else Glossary Index.
Sommario/riassunto	This book looks at the persistence of life and how difficult it would be to annihilate life, especially a species as successful as humanity. The idea that life in general is fragile is challenged by the hardiness of microbes, which shows that astrobiology on exoplanets and other satellites must be robust and plentiful. Microbes have adapted to virtually every niche on the planet, from the deep, hot biosphere, to the frigid heights of the upper troposphere. Life, it seems, is almost indestructible. The chapters in this work examine the various scenarios that might lead to the extermination of life, and why they will almost always fail. Life's highly adaptive nature ensures that it will cling on no matter how difficult the circumstances. Scientists are increasingly

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1	probing and questioning life's true limits in, on and above the Earth,
á	and how these limits could be pushed elsewhere in the universe. This
i	nvestigation puts life in its true astronomical context, with the reader
t	aken on a journey to illustrate life's potential and perseverance.