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Given the fact that there are perhaps 400 million stars in our Galaxy alone, and perhaps 400 million galaxies in the Universe, it stands to reason that somewhere out there, in the 14-billion-year-old

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cosmos, there is or once was a civilization at least as advanced as our own.

~~If the Universe Is Teeming with Aliens — Where Is ...~~

Science and science fiction collide to pose answers to a fundamental question about our universe If the universe is so old and so big, shouldn't there have been ample opportunities for other solar systems, planets, life forms, intelligence, and technology to form? Some these civilizations must be millions of years older than us on Earth, so surely should have developed the capability to communicate and travel through from star to star and galaxy to galaxy.

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Buy If the Universe Is Teeming with Aliens . . . Where Is Everybody?: Fifty Solutions to the Fermi Paradox and the Problem of Extraterrestrial Life Softcover reprint of hardcover 1st ed. 2002 by Webb, Stephen (ISBN: 9781441930293) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Synopsis In a 1950 conversation at Los Alamos, four world-class scientists generally agreed, given the size of the Universe, that advanced extraterrestrial civilizations must be present. But one of the four, Enrico Fermi, asked, "If these civilizations do exist, where is everybody?"

~~If the Universe Is Teeming with Aliens ... WHERE IS ...~~

Given the fact that there are perhaps 400 billion stars in our Galaxy alone, and perhaps 400 billion galaxies in the Universe, it stands to reason that somewhere out there, in the 14-billion-year-old cosmos, there is or once was a civilization at least as advanced as our own. The sheer enormity of the numbers almost demands that we accept the truth of this hypothesis.

~~If the Universe Is Teeming with Aliens ... WHERE IS ...~~

Buy If the Universe Is Teeming with Aliens ... WHERE IS EVERYBODY?: Seventy-Five Solutions to the Fermi Paradox and the Problem of Extraterrestrial Life (Science and Fiction) 2nd ed. 2015 by Webb, Stephen (ISBN: 9783319132358) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Physicist Stephen Webb is best known as author of popular science books: he has published 'Measuring the

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Universe - The Cosmological Distance Ladder' in 1999, the first edition of 'If the Universe Is Teeming with Aliens ...

~~If the Universe Is Teeming with Aliens ... WHERE IS ...~~

They will find much to agree with, and much to argue about, in this very accessible volume. SCIENCE During a Los Alamos lunchtime conversation that took place more than 50 years ago, four world-class scientists agreed, given the size and age of the Universe, that advanced extraterrestrial civilizations simply had to exist.

~~If the Universe Is Teeming with Aliens ... WHERE IS ...~~

If the Universe is teeming with aliens then where is everybody? It's one of the biggest conundrums in the Universe, known as the Fermi Paradox . That means that if the Universe is so conducive to life, and if there are so many opportunities for it within our galaxy alone, why isn't there any evidence (outside of the History Channel of extraterrestrial life?

~~If the Universe is teeming with aliens then where is ...~~

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viii If the Universe Is Teeming with Aliens...WHERE IS EVERYBODY? chemistry of terrestrial life is the only possibility, or just one chemical basis among many options that could be realized elsewhere. Furthermore, even if simple life is widespread, we can't assess the odds that it evolves into a complex biosphere. And, even if it did, the outcome might anyway

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Universe is ALIVE: Consciousness pervades through cosmos down to smallest atoms - claim THE UNIVERSE

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could be teeming with consciousness, right down to some of the smallest particles which make up...

~~Universe is ALIVE: Consciousness pervades through cosmos ...~~

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We're ending our summer hiatus by switching it up with this book that combines science fiction with science fact. If the Universe Is Teeming with Aliens... Where Is Everybody? Second Edition by Stephen Webb takes on Fermi's Paradox. From Springer.com: "Given the fact that there are perhaps 400 billion stars in our Galaxy alone, and perhaps 400 billion galaxies in the Universe, it stands to reason that somewhere out there, in the 14-billion-year-old cosmos, there is or once was a civilization ...

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T1 - If the Universe is teeming with aliens ... where is everybody? T2 - fifty solutions to the Fermi paradox and the problem of extraterrestrial life. AU - Webb, Stephen. PY - 2002/4/1. Y1 - 2002/4/1. N2 - From the Reviews: 'Webb offers coherent, understandable, and sometimes humorous coverage of a diverse range of topics.

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Given the fact that there are perhaps 400 billion stars in our Galaxy alone, and perhaps 400 billion galaxies in the Universe, it stands to reason that somewhere out there, in the 14-billion-year-old cosmos, there is or once was a civilization at least as advanced as our own. The sheer enormity of the numbers almost demands that we accept the truth of this hypothesis. Why, then, have we encountered no evidence, no messages, no artifacts of these extraterrestrials? In this second, significantly revised and expanded edition of his widely popular book, Webb discusses in detail the (for now!) 75 most cogent and intriguing solutions to Fermi's famous paradox: If the numbers strongly point to the existence of extraterrestrial civilizations, why have we found no evidence of them? Reviews from the first edition: "Amidst the plethora of books that treat the possibility of extraterrestrial intelligence, this one by Webb ... is outstanding. ... Each solution is presented in a very logical, interesting, thorough manner with accompanying explanations and notes that the intelligent layperson can understand. Webb digs into the issues ... by considering a very broad set of in-depth solutions that he addresses through an interesting and challenging mode of presentation that stretches the mind. ... An excellent book for anyone who has ever asked 'Are we alone?'" (W. E. Howard III, Choice, March, 2003) "Fifty ideas are presented ... that reveal a clearly reasoned examination of what is known as 'The Fermi Paradox'. ... For anyone who enjoys a good detective story, or using their thinking faculties and stretching the imagination to the limits ... 'Where is everybody' will be enormously informative and entertaining. ... Read this book, and whatever your views are about life elsewhere in the Universe, your appreciation for how special life is here on Earth will be enhanced! A worthy addition to any personal library." (Philip Bridle, BBC Radio, March, 2003) Since gaining a BSc in physics from the University of Bristol and a PhD in theoretical physics from the University of Manchester, Stephen Webb has worked in a variety of universities in the UK. He is a regular contributor to the Yearbook of Astronomy series and has published an undergraduate textbook on distance determination in astronomy and cosmology as well as several popular science books. His interest in the Fermi paradox combines lifelong interests in both science and science fiction.

In a 1950 conversation at Los Alamos, four world-class scientists generally agreed, given the size of the Universe, that advanced extraterrestrial civilizations must be present. But one of the four, Enrico Fermi, asked, "If these civilizations do exist, where is everybody?" Given the fact that there are perhaps 400 million stars in our Galaxy alone, and perhaps 400 million galaxies in the Universe, it stands to reason that somewhere out there, in the 14 billion-year-old cosmos, there is or once was a

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civilization at least as advanced as our own. Webb discusses in detail the 50 most cogent and intriguing solutions to Fermi's famous paradox.

The Great Silence explores the multifaceted problem named after the great Italian physicist Enrico Fermi and his legendary 1950 lunchtime question "Where is everybody?" In many respects, Fermi's paradox is the richest and the most challenging problem for the entire field of astrobiology and the Search for ExtraTerrestrial Intelligence (SETI) studies. This book shows how Fermi's paradox is intricately connected with many fields of learning, technology, arts, and even everyday life. It aims to establish the strongest possible version of the problem, to dispel many related confusions, obfuscations, and prejudices, as well as to offer a novel point of entry to the many solutions proposed in existing literature. Ćirković argues that any evolutionary worldview cannot avoid resolving the Great Silence problem in one guise or another.

What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe. Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by Rare Earth, and its implications for those who look to the heavens for companionship.

One of the world's leading scientists explains why—and how—the search for intelligent life beyond Earth should be expanded. Fifty years ago, a young astronomer named Frank Drake first pointed a radio telescope at nearby stars in the hope of picking up a signal from an alien civilization. Thus began one of the boldest scientific projects in history, the Search for Extraterrestrial Intelligence (SETI). After a half-century of scanning the skies, however, astronomers have little to report but an eerie silence—eerie because many scientists are convinced that the universe is teeming with life. Physicist and astrobiologist Paul Davies has been closely involved with SETI for three decades and chairs the SETI Post-Detection Taskgroup, charged with deciding what to do if we're suddenly confronted with evidence of alien intelligence. He believes the search so far has fallen into an anthropocentric trap—assuming that an alien species will look, think, and behave much like us. In this provocative book Davies refocuses the search, challenging existing ideas of what form an alien intelligence might take, how it might try to communicate with us, and how we should respond if it does.

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In the vein of Randall Munroe's *What If?* meets Brian Green's *Elegant Universe*, a senior writer from Space.com leads readers on a wild ride of exploration into the final frontier, investigating what's really "out there." We've all asked ourselves the question. It's impossible to look up at the stars and NOT think about it: Are we alone in the universe? Books, movies and television shows proliferate that attempt to answer this question and explore it. In *OUT THERE* Space.com senior writer Dr. Michael Wall treats that question as merely the beginning, touching off a wild ride of exploration into the final frontier. He considers, for instance, the myriad of questions that would arise once we do discover life beyond Earth (an eventuality which, top NASA officials told Wall, is only drawing closer). What would the first aliens we meet look like? Would they be little green men or mere microbes? Would they be found on a planet in our own solar system or orbiting a star far, far away? Would they intend to harm us, and if so, how might they do it? And might they already have visited? *OUT THERE* is arranged in a simple question-and-answer format. The answers are delivered in Dr. Wall's informal but informative style, which mixes in a healthy dose of humor and pop culture to make big ideas easier to swallow. Dr. Wall covers questions far beyond alien life, venturing into astronomy, physics, and the practical realities of what long-term life might be like for we mere humans in outer space, such as the idea of lunar colonies, and even economic implications. Dr. Wall also shares the insights of some of the leading lights in space exploration today, and shows how the next space age might be brighter than ever.

The acclaimed author of *In Search of Schrödinger's Cat* searches for life on other planets Are we alone in the universe? Surely amidst the immensity of the cosmos there must be other intelligent life out there. Don't be so sure, says John Gribbin, one of today's best popular science writers. In this fascinating and intriguing new book, Gribbin argues that the very existence of intelligent life anywhere in the cosmos is, from an astrophysicist's point of view, a miracle. So why is there life on Earth and (seemingly) nowhere else? What happened to make this planet special? Taking us back some 600 million years, Gribbin lets you experience the series of unique cosmic events that were responsible for our unique form of life within the Milky Way Galaxy. Written by one of our foremost popular science writers, author of the bestselling *In Search of Schrödinger's Cat* Offers a bold answer to the eternal question, "Are we alone in the universe?" Explores how the impact of a "supercomet" with Venus 600 million years ago created our moon, and along with it, the perfect conditions for life on Earth From one of our most talented science writers, this book is a daring, fascinating exploration into the dawning of the universe, cosmic collisions and their consequences, and the uniqueness of life on Earth.

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Recounts the mathematical reasoning which was used to calculate first the size of the earth, then the solar system, and so on up to the universe.

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