
At Home In The Universe

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At Home in the Universe *Oxford University Press*

A major scientific revolution has begun, a new paradigm that rivals Darwin's theory in importance. At its heart is the discovery of the order that lies deep within the most complex of systems, from the origin of life, to the workings of giant corporations, to the rise and fall of great civilizations. And more than anyone else, this revolution is the work of one man, Stuart Kauffman, a MacArthur Fellow and visionary pioneer of the new science of complexity. Now, in *At Home in the Universe*, Kauffman brilliantly weaves together the excitement of intellectual discovery and a fertile mix of insights to give the general reader a fascinating look

at this new science--and at the forces for order that lie at the edge of chaos. We all know of instances of spontaneous order in nature--an oil droplet in water forms a sphere, snowflakes have a six-fold symmetry. What we are only now discovering, Kauffman says, is that the range of spontaneous order is enormously greater than we had supposed. Indeed, self-organization is a great undiscovered principle of nature. But how does this spontaneous order arise? Kauffman contends that complexity itself triggers self-organization, or what he calls "order for free," that if enough different molecules pass a certain threshold of complexity, they begin to self-organize into a new entity--a living cell. Kauffman uses the analogy of a thousand buttons on a rug--join two buttons randomly with thread, then another two, and so on. At first, you have isolated pairs; later, small clusters; but suddenly at around the 500th repetition, a remarkable transformation occurs--much like the phase transition when water abruptly turns to ice--and the buttons link up in one giant network. Likewise, life may have originated when the mix of different molecules in the primordial soup passed a certain level of complexity and self-organized into living entities (if so, then life is not a highly improbable chance event, but almost inevitable). Kauffman uses the basic insight of "order for free" to illuminate a staggering range of phenomena. We see how a single-celled embryo can grow to a highly complex organism with over two hundred different cell types. We learn how the science of complexity extends Darwin's theory of evolution by natural selection: that self-organization, selection, and chance are the engines of the biosphere. And we gain insights into biotechnology, the stunning magic of the new frontier of genetic

engineering--generating trillions of novel molecules to find new drugs, vaccines, enzymes, biosensors, and more. Indeed, Kauffman shows that ecosystems, economic systems, and even cultural systems may all evolve according to similar general laws, that tissues and terra cotta evolve in similar ways. And finally, there is a profoundly spiritual element to Kauffman's thought. If, as he argues, life were bound to arise, not as an incalculably improbable accident, but as an expected fulfillment of the natural order, then we truly are at home in the universe. Kauffman's earlier volume, *The Origins of Order*, written for specialists, received lavish praise. Stephen Jay Gould called it "a landmark and a classic." And Nobel Laureate Philip Anderson wrote that "there are few people in this world who ever ask the right questions of science, and they are the ones who affect its future most profoundly. Stuart Kauffman is one of these." In *At Home in the Universe*, this visionary thinker takes you along as he explores new insights into the nature of life.

At Home in the Universe *Oxford University Press, USA*

The author examines the concept of self-organization, or as he calls it "order for free," discussing how it occurs more frequently in nature than originally believed

At Home in the Universe *SteinerBooks*

5 lectures at The Hague, November 13-18, 1923 (CW 231) What is our relationship to the planets we see in the night sky? Does the cosmos have any affect on our individual lives? Modern science tells us that we are an insignificant accident in a vast, indifferent universe. Rudolf Steiner maintains that we are

intimately enmeshed with the whole cosmos, right down to the very structure of our physical bodies. In these talks, Steiner explores our relationship as individuals to the spiritual cosmos--where we will all become cosmonauts one day. The key to being at home in the universe is to comprehend the significance of our individual, physical lives on Earth and what happens when we leave our physical bodies behind. Steiner describes his view of our journey after death and our subsequent return to Earth and a new life. He describes the "planetary" spheres through which we pass and how they affect our future life. He shows us how our character and actions on Earth affects us after we die, and how those experiences in turn shape our next physical life. This is not just more information to add to our already overloaded store of abstract concepts; Steiner gives imaginative exercises that help us explore our suprasensory, spiritual nature. We can begin right now to act more consciously by recognizing the concrete nature of morality and the real consequences of our present lives. The introduction and comprehensive afterword by Paul Margulies explain and contextualize Steiner's text, revealing a message that is more vital and relevant than ever in our frenzied, materialistic times. This book can help us experience more meaning in life and become more at home as spiritual citizens of the universe. Read Bobby Matherne's review of this book
Contents: Introduction by Paul Margulies Lecture 1. "A Speck of Dust?" Lecture 2. "Interweaving Our Destinies" Lecture 3. "Through the Spheres" Lecture 4. "Through Midnight to Birth" Lecture 5. "Earth and the Mystery of Karma" Afterword by Paul Margulies German title: *Der bersinnliche Mensch, anthroposophisch erfa t*. An earlier English edition was titled

Supersensible Man. This edition was thoroughly revised.

At Home in the Universe *Amer Inst of Physics*

An unforgettable journey through the mind and memory of one of the century's great physicists, *At Home in the Universe* will delight, educate, and inspire.

One Universe: *Joseph Henry Press*

A new window opens onto the cosmos... Almost every day we are challenged by new information from the outermost reaches of space. Using straightforward language, *One Universe* explores the physical principles that govern the workings of our own world so that we can appreciate how they operate in the cosmos around us. Bands of color in a sunlit crystal and the spectrum of starlight in giant telescopes, the arc of a hard-hit baseball and the orbit of the moon, traffic patterns on a freeway and the spiral arms in a galaxy full of stars--they're all tied together in grand and simple ways. We can understand the vast cosmos in which we live by exploring three basic concepts: motion, matter, and energy. With these as a starting point, *One Universe* shows how the physical principles that operate in our kitchens and backyards are actually down-to-Earth versions of cosmic processes. The book then takes us to the limits of our knowledge, asking the ultimate questions about the origins and existence of life as we know it and where the universe came from--and where it is going. Glorious photographs--many seen for the first time in these pages--and original illustrations expand and enrich our understanding. Evocative and clearly written, *One Universe* explains complex ideas in ways that every reader can grasp and

enjoy. This book captures the grandeur of the heavens while making us feel at home in the cosmos. Above all, it helps us realize that galaxies, stars, planets, and we ourselves all belong to *One Universe*.

The Last Book in the Universe *Scholastic Inc.*

This fast-paced action novel is set in a future where the world has been almost destroyed. Like the award-winning novel *Freak the Mighty*, this is Philbrick at his very best. It's the story of an epileptic teenager nicknamed Spaz, who begins the heroic fight to bring human intelligence back to the planet. In a world where most people are plugged into brain-drain entertainment systems, Spaz is the rare human being who can see life as it really is. When he meets an old man called Ryter, he begins to learn about Earth and its past. With Ryter as his companion, Spaz sets off an unlikely quest to save his dying sister -- and in the process, perhaps the world.

Islands, the Universe, Home *Open Road Media*

Ten essays on nature, ritual, and philosophy "that are so point-blank vital you nearly need to put the book down to settle yourself" (*San Francisco Chronicle*). Gretel Ehrlich's world is one of solitude and wonder, pain and beauty, and these elements give life to her stunning prose. Ever since her acclaimed debut, *The Solace of Open Spaces*, she has illuminated the particular qualities of nature and the self with graceful precision. In *Islands, the Universe, Home*, Ehrlich expands her explorations, traveling to the remote reaches of the earth and deep into her soul. She tells of a voyage of discovery in northern Japan, where she finds

her “bridge to heaven.” She captures a “light moving down a mountain slope.” She sees a ruined city in the face of a fire-scarred mountain. Above all, she recalls what a painter once told her about art when she was twelve years old, as she sat for her portrait: “You have to mix death into everything. Then you have to mix life into that.” In this unforgettable collection, Ehrlich mixes life and death, real and sacred, to offer a stunning vision of our world that is both achingly familiar and miraculously strange. According to National Book Award-winning author Andrea Barrett, these essays are “as spare and beautiful as the landscape from which they’ve grown. . . . Each one is a pilgrimage into the secrets of the heart.”

Buckminster Fuller

A biography of Buckminster Fuller (Bucky) written by a close friend and “illuminates the very human being that he is.”

Your Ticket to the Universe *Smithsonian Institution*

An entertaining and accessible trip to the most interesting stops in the cosmos. Accompanied by dramatic visuals, *Your Ticket to the Universe* is a hybrid coffee-table book and field guide. Beginning with our home planet, *Your Ticket to the Universe* embarks on an entertaining and accessible trip to the most interesting stops known in the cosmos. Learn about objects nearby within our Solar System (our backyard in space, so to speak) as well as wonders that are found throughout the Milky Way galaxy and beyond (the most distant and exotic lands to explore). Accompanied by brilliant photographs that bring the reading experience to vivid, immediate life, *Your Ticket to the*

Universe is designed to make space exploration accessible to everyone. *Your Ticket to the Universe* outlines the essentials anyone needs to know, while piquing the reader's curiosity to learn more.

Your Place in the Universe *National Geographic Books*

Explore the known Universe and consider its mind-boggling scale in this crisply illustrated, well-researched picture book from Caldecott Medalist Jason Chin. Winner of the Cook Prize! Now available in paperback. Most eight-year-olds are about five times as tall as this book . . . but only half as tall as an ostrich, which is half as tall as a giraffe . . . twenty times smaller than a California Redwood! How do they compare to the tallest buildings? To Mt. Everest? To stars, galaxy clusters, and . . . the universe? Jason Chin, the award-winning author and illustrator of *Grand Canyon* has once again found a way to make a complex subject--size, scale and almost unimaginable distance--accessible and understandable to readers of all ages. Meticulously researched and featuring the highly detailed artwork for which he is renowned, this is *How Much is a Million* for the new millenium, sure to be an immediate hit with kids looking for an engaging way to delve into perspective, astronomy, and astrophysics. Curious readers will love the extensive supplementary material included in the back of the back of the book An American Library Association Notable Children's Book A New England Book Award Finalist A Kirkus Reviews Best Book of the Year A School Library Journal Best Book of the Year A Junior Library Guild Gold Standard Selection A Horn Book Fanfare Best Book of the Year

A Householder's Guide to the Universe: A Calendar of Basics for the Home and Beyond *Tin House Books*

In an era when go local, organic food, and sustainability are one the tip of everyone's tongues, Harriet Fasenfest's *A Householder's Guide to the Universe* takes up the banner of progressive homemaking and urban farming as a way to confront the political, social, and environmental issues facing our world today. In an era when go local, organic food, and sustainability are on the tip of everyone's tongues, Harriet Fasenfest's *A Householder's Guide to the Universe* takes up the banner of progressive homemaking and urban farming as a way to confront the political, social, and environmental issues facing our world today. Offering grass-roots practical advice on how to shop, garden, run a household, preserve and cook food, and more, Fasenfest also discusses the philosophy of householding. In *A Householder's Guide to the Universe*, which is organized according to season and presented in monthly installments, Fasenfest invites the reader into her home, garden, and kitchen to consider concrete tools for change. Streetwise and poetic, fierce and romantic, the book provides not only a way out of our current economic and environmental logjam but also a readable and often funny analysis of how we got there.

The Universe: The book of the BBC TV series presented by Professor Brian Cox *HarperCollins UK*

Every night, above our heads, a drama of epic proportions is playing out. Diamond planets, zombie stars, black holes heavier than a billion Suns. The cast of characters is extraordinary, and each one has its own incredible story to tell.

The Universe is My Home *Thomas More Press*

When Sarah and her cousin Robert go camping in the desert to look at the stars, they meet a glowing yellow light named Andra who takes them into outer space to visit Andra's home planet

Everything Else in the Universe *Penguin*

In the midst of the Vietnam War, a young girl struggles to embrace change in this tender family story for fans of Cynthia Lord and Wendy Maas. Lucy is a practical, orderly person--just like her dad. He taught her to appreciate reason and good sense, instilling in her the same values he learned at medical school. But when he's sent to Vietnam to serve as an Army doctor, Lucy and her mother are forced to move to San Jose, California, to be near their relatives--the Rossis--people known for their superstitions and all around quirky ways. Lucy can't wait for life to go back to normal, so she's over the moon when she learns her father is coming home early. It doesn't even matter that he's coming back "different." That she can't ask too many questions or use the word "amputation." It just matters that he'll be home. But Lucy quickly realizes there's something very wrong when her mother sends her to spend the summer with the Rossis to give her father some space. Lucy's beside herself, but what's a twelve-year-old to do? It's a curious boy named Milo, a mysterious packet of photographs and an eye-opening mission that makes Lucy see there's more to life than schedules and plans, and helps to heal her broken family. The latest from critically-acclaimed author Tracy Holczer is a pitch-perfect middle grade tale of family and friendship that's sure to delight fans of *One for the Murphys* and *Rules*.

Your Place in the Universe *Prometheus Books*

An astrophysicist presents an in-depth yet accessible tour of the universe for lay readers, while conveying the excitement of astronomy. How is a galaxy billions of lightyears away connected to us? Is our home nothing more than a tiny speck of blue in an ocean of night? In this exciting tour of a universe far larger than we can imagine, cosmologist Paul M. Sutter emphasizes how amazing it is that we are part of such a huge, complex, and mysterious place. Through metaphors and uncomplicated language, Sutter breathes life into the science of astrophysics, unveiling how particles, forces, and fields interplay to create the greatest of cosmic dramas. Touched with the author's characteristic breezy, conversational style--which has made him a breakout hit on venues such as The Weather Channel, the Science Channel, and his own popular Ask a Spaceman! podcast--he conveys the fun and wonder of delving deeply into the physical processes of the natural universe. He weaves together the past and future histories of our universe with grounded descriptions of essential modern-day physics as well as speculations based on the latest research in cosmology. Topics include our place in the Milky Way galaxy; the cosmic web--a vast web-like pattern in which galaxies are arranged; the origins of our universe in the big bang; the mysteries of dark matter and dark energy; how science has dramatically changed our relationship to the cosmos; conjectures about the future of reality as we know it; and more. For anyone who has ever stared at the starry night sky and wondered how we humans on Earth fit into the big picture, this book is an essential roadmap.

Child of the Universe *Make Me a World*

Perfect for fans of *The Wonderful Things You Will Be* and *That's Me Loving You*, this picture book by a renowned astrophysicist is a lyrical meditation on the preciousness of one child and the vastness of the universe. Just like the sun gives shine to the moon, you light up the world beyond this room . . . You are grand and marvelous, strong and mysterious. The history of the world is in your fingertips. A lyrical meditation on the preciousness of one child and the vastness of the universe, this gorgeously illustrated picture book shares the immensity of a parent's love along with the message that we are all connected to the broader cosmos in important and intimate ways. A perfect bedtime read-aloud, *Child of the Universe* is a book to cherish forever. The author is an astrophysicist who has been fascinated by the universe since he was a child. As a parent, he has developed a new appreciation for the deep connections between billions of years of cosmic evolution and this one tiny human.

You Are the Universe *Harmony*

NEW YORK TIMES BESTSELLER • Deepak Chopra joins forces with leading physicist Menas Kafatos to explore some of the most important and baffling questions about our place in the world. "A riveting and absolutely fascinating adventure that will blow your mind wide open!" —Dr. Rudolph E. Tanzi What happens when modern science reaches a crucial turning point that challenges everything we know about reality? In this brilliant, timely, and practical work, Chopra and Kafatos tell us that we've reached just such a point. In the coming era, the universe will be completely redefined as a "human universe" radically unlike the cold, empty

void where human life is barely a speck in the cosmos. You Are the Universe literally means what it says--each of us is a co-creator of reality extending to the vastest reaches of time and space. This seemingly impossible proposition follows from the current state of science, where outside the public eye, some key mysteries cannot be solved, even though they are the very issues that define reality itself: • What Came Before the Big Bang? • Why Does the Universe Fit Together So Perfectly? • Where Did Time Come From? • What Is the Universe Made Of? • Is the Quantum World Linked to Everyday Life? • Do We Live in a Conscious Universe? • How Did Life First Begin? "The shift into a new paradigm is happening," the authors write. "The answers offered in this book are not our invention or eccentric flights of fancy. All of us live in a participatory universe. Once you decide that you want to participate fully with mind, body, and soul, the paradigm shift becomes personal. The reality you inhabit will be yours either to embrace or to change." What these two great minds offer is a bold, new understanding of who we are and how we can transform the world for the better while reaching our greatest potential.

How the Universe Works *Chartwell Books*

With beautiful visuals in the form of info-graphics, 3D illustrations, cutaways and renderings, How the Universe Works offers a tiny glimpse of the massive stretch of the universe.

A World Beyond Physics *Oxford University Press*

How did life start? Is the evolution of life describable by any physics-like laws? Stuart Kauffman's latest book offers an

explanation-beyond what the laws of physics can explain-of the progression from a complex chemical environment to molecular reproduction, metabolism and to early protocells, and further evolution to what we recognize as life. Among the estimated one hundred billion solar systems in the known universe, evolving life is surely abundant. That evolution is a process of "becoming" in each case. Since Newton, we have turned to physics to assess reality. But physics alone cannot tell us where we came from, how we arrived, and why our world has evolved past the point of unicellular organisms to an extremely complex biosphere. Building on concepts from his work as a complex systems researcher at the Santa Fe Institute, Kauffman focuses in particular on the idea of cells constructing themselves and introduces concepts such as "constraint closure." Living systems are defined by the concept of "organization" which has not been focused on in enough in previous works. Cells are autopoietic systems that build themselves: they literally construct their own constraints on the release of energy into a few degrees of freedom that constitutes the very thermodynamic work by which they build their own self creating constraints. Living cells are "machines" that construct and assemble their own working parts. The emergence of such systems-the origin of life problem-was probably a spontaneous phase transition to self-reproduction in complex enough prebiotic systems. The resulting protocells were capable of Darwin's heritable variation, hence open-ended evolution by natural selection. Evolution propagates this burgeoning organization. Evolving living creatures, by existing, create new niches into which yet further new creatures can emerge. If life is abundant in the universe, this self-constructing,

propagating, exploding diversity takes us beyond physics to biospheres everywhere.

Why the Universe Is the Way It Is (Reasons to Believe)

Baker Books

Increasingly astronomers recognize that if the cosmos had not unfolded exactly as it did, humanity would not, could not, exist. Yet these researchers--along with countless ordinary folks--resist belief in the biblical Creator. Why? They say a loving God would have made a better home for us, one without trouble and tragedy. In *Why the Universe Is the Way It Is*, Hugh Ross draws from his depth of study in both science and Scripture to explain how the universe's design fulfills several distinct purposes. He also reveals God's surpassing love and ultimate purposes for each individual. *Why the Universe Is the Way It Is* will interest anyone who wonders where and how the universe came to be, what or who is responsible for it, why we are here, or how and when the universe ends. Far from leaving the reader at this philosophical jumping-off point, Ross builds toward answering the big question of human destiny and the specific question of each reader's personal destiny.

Thanks a Lot, Universe *Abrams*

Now in paperback, a moving contemporary middle-grade novel for anyone who's ever felt like they don't belong Brian has always been anxious, whether at home, or in class, or on the basketball court. His dad tries to get him to stand up for himself and his mom helps as much as she can. But after he and his brother are placed in foster care, Brian starts having panic attacks. And he

doesn't quite know if there's something wrong with him . . . Ezra's always been popular. He's friends with most of the kids on his basketball team—even Brian, who doesn't talk to many people. But now, some of his friends have been acting differently, and Brian seems to be pulling away. Ezra wants to help, but he worries if he's too nice to Brian, his friends will realize that he has a crush on him . . . But when Brian and his brother run away, Ezra has no choice but to take the leap and reach out to Brian. And Brian realizes that he could really use a friend right now. As the two get closer, they'll have to decide if they're willing to risk being vulnerable with each other and share parts of themselves they'd rather hide from the world. But if they can be brave, they might just find the best in themselves—and each other. With a lively voice and moving story, *Thanks a Lot, Universe* is about finding your community and learning to trust your heart.

The View From the Center of the Universe *Penguin*

In this strikingly original book, a world-renowned cosmologist and an innovative writer of the history and philosophy of science uncover an astonishing truth: Humans actually are central to the universe. What does this mean for our culture and our personal lives? The answer is revolutionary: a science-based cosmology that allows us to understand the universe as a whole and our extraordinary place in it.

At Home in the Universe

The Catalogue of the Universe *Simon and Schuster*

Determined to satisfy her curiosity about her unknown father,

eighteen-year-old Angela May embarks on an emotional journey that shapes and forever alters the way she looks at herself, her unconventional mother, and her devoted friend Tycho. Reprint.

The Universe Doesn't Give a Shit about You!

Retail censored cover version

Matter and Energy *Twenty-First Century Books*

Discusses the scientific principles behind the laws of conservation of matter, the combination of elements, the periodic table, and the first and second law of thermodynamics, and describes the work of the scientists who discovered them.

The Smartest Kid in the Universe *Yearling*

"Chris Grabenstein just might be the smartest writer for kids in the universe." --James Patterson Meet the Smartest Kid in the Universe in this fun-packed series from the New York Times Bestselling Author of *Escape from Mr. Lemoncello's Library* and coauthor of *Max Einstein!* Twelve-year-old Jake's middle school is about to be shut down. Jake and his friends know their school's worth saving-if they could only figure out how! When Jake spies a bowl of jellybeans at the hotel where his mom works, he eats them. But uh-oh--those weren't just jellybeans, one of the scientists at his mom's conference is in the process of developing the first ingestible information pills. And THAT'S what Jake ate. Before long, Jake is the smartest kid in the universe. But the pills haven't been tested yet. And when word gets out about this new genius, people want him. The government. The mega corporations. Not all of them are nice! Can Jake navigate all the

ins and outs of his newfound geniusdom (not to mention the ins and outs of middle school!) AND use his smarts to figure out how to save his school? (Hint-it will take someone smart enough to decipher an almost forgotten pirate legend!) It turns out, sometimes even the smartest kid has a lot to learn!

At Home in the Universe *Swedenborg Foundation*

In a radical departure from recent science-and-spirituality books, "At Home in the Universe" contends that humanity must balance its intellectual vision of the universe with a heart-centred view. Humans are primarily feeling beings, Hitchcock asserts, and, from a theological perspective, the purpose of creation is the fulfilment of love. Humanity is welcome in the cosmos because love is at its heart and humanity participates in that love. Specifically, love unites the qualities that characterise the universe (such as evolving, self-creating, fostering, integrating--the chapter titles of the book) and these qualities are shared by humanity. In some way, we belong here; our belonging is part of the universe's intention. "At Home in the Universe" is not just theology, though. It summarises how contemporary physics sees the world and adds a Jungian view as well. Ultimately, Hitchcock renders spirit and matter as two ways of looking at the unity that underlies everything we do. It is through love -- and thus through our hearts -- that we most clearly and deeply perceive this unity.

Being at Home in the Universe *iUniverse*

T. S. Elliot wrote: "At the still point of the turning world. Neither flesh not fleshless; Neither from not towards; at the still point , there the dance is, Except for the point, the still point. There

would be no dance, and there is only the dance.” This book talks about the still point in an entirely new way by framing it as our internal home. It also provides a path to “coming home” based on extensive research and personal experience. If you are interested in the dance of spiritual transformation, this is a must read. –Barry Cohen, Ph.D. Dr. Bellingham enlightens the reader by sharing his personal life experiences in an extraordinarily meaningful context. He bridges the divide between eastern and western thought to form one fully human message. He has the rare ability to satisfy and integrate our intellectual curiosity with our search for spiritual fulfillment. –Bill O’Brien, Ph.D. Having known the author for over 40 years, and witnessing many aspects of his spiritual journey, I highly recommend this book for anyone who continues to strive to find his inner self, or to be HOME. My own quest for SERENITY has been enriched by reading this book, and by witnessing Dr. Bellingham’s life-long desire to find inner peace. We can indeed “transform our lives from a mindless drill to a mindful dance” with enough work, desire and by digesting the thoughts expressed in this wonderful accounting of the author’s life and experiences. –Ronald Irwin M.D. This is coming-to-wisdom story with hope for us all. This tale is all personal, with regular bits of carefully crafted ways to grasp the most elusive thoughts of the world’s greatest teachers and soul guides. Read it. Smile at the disarming honesty. And be heartened. For he’s showing how wisdom can flourish more widely than ever in America. –Artie Egendorf, Ph. D. Author of “Healing from the War” and originator of Super Integral Synergy (<http://sismoves.com>) By openly and honestly illuminating his experience and journey over 40 years, Dr. Bellingham shines a bright light on our own unique

paths. He knows the territory with all its hills and valleys. With this book we, who are researchers, can be assured we are home already. To me, being fully present with a deep sense of love for all things is the key message. We are not separate. –Mary Alice Fox

How to Live Safely in a Science Fictional Universe (Enhanced Edition) Knopf

This enhanced eBook includes video, audio, photographic, and linked content, as well as a bonus short story. Hear TAMMY talk. Learn the origins of Minor Universe 31. See the TM-31. Take a trip in it. Photos and illustrations appear as hyperlinked endnotes. Video and audio are embedded directly in text. *Video and audio may not play on all readers. Check your user manual for details. National Book Foundation 5 Under 35 Award winner Charles Yu delivers his debut novel, a razor-sharp, ridiculously funny, and utterly touching story of a son searching for his father . . . through quantum space-time. Minor Universe 31 is a vast story-space on the outskirts of fiction, where paradox fluctuates like the stock market, lonely sexbots beckon failed protagonists, and time travel is serious business. Every day, people get into time machines and try to do the one thing they should never do: change the past. That’s where Charles Yu, time travel technician—part counselor, part gadget repair man—steps in. He helps save people from themselves. Literally. When he’s not taking client calls or consoling his boss, Phil, who could really use an upgrade, Yu visits his mother (stuck in a one-hour cycle of time, she makes dinner over and over and over) and searches for his father, who invented time travel and then vanished.

Accompanied by TAMMY, an operating system with low self-esteem, and Ed, a nonexistent but ontologically valid dog, Yu sets out, and back, and beyond, in order to find the one day where he and his father can meet in memory. He learns that the key may be found in a book he got from his future self. It's called *How to Live Safely in a Science Fictional Universe*, and he's the author. And somewhere inside it is the information that could help him—in fact it may even save his life. Wildly new and adventurous, Yu's debut is certain to send shock waves of wonder through literary space-time.

Defenders of the Universe *Houghton Mifflin Harcourt*

Rachel joins a group of other youngsters from her new school who call themselves Defenders of the Universe--and who play a pretend game in which they protect Earth from evil everywhere--and finds herself up against a real-life villain.

A Universe from Nothing *Simon and Schuster*

Bestselling author and acclaimed physicist Lawrence Krauss offers a paradigm-shifting view of how everything that exists came to be in the first place. "Where did the universe come from? What was there before it? What will the future bring? And finally, why is there something rather than nothing?" One of the few prominent scientists today to have crossed the chasm between science and popular culture, Krauss describes the staggeringly beautiful experimental observations and mind-bending new theories that demonstrate not only can something arise from nothing, something will always arise from nothing. With a new preface about the significance of the discovery of the

Higgs particle, *A Universe from Nothing* uses Krauss's characteristic wry humor and wonderfully clear explanations to take us back to the beginning of the beginning, presenting the most recent evidence for how our universe evolved—and the implications for how it's going to end. Provocative, challenging, and delightfully readable, this is a game-changing look at the most basic underpinning of existence and a powerful antidote to outmoded philosophical, religious, and scientific thinking.

Holding Up the Universe *Knopf Books for Young Readers*

A New York Times Bestseller From the author of the New York Times bestseller *All the Bright Places* comes a heart-wrenching story about what it means to see someone—and love someone—for who they truly are. Everyone thinks they know Libby Strout, the girl once dubbed "America's Fattest Teen." But no one's taken the time to look past her weight to get to know who she really is. Following her mom's death, she's been picking up the pieces in the privacy of her home, dealing with her heartbroken father and her own grief. Now, Libby's ready: for high school, for new friends, for love, and for EVERY POSSIBILITY LIFE HAS TO OFFER. In that moment, I know the part I want to play here at MVB High. I want to be the girl who can do anything. Everyone thinks they know Jack Masselin, too. Yes, he's got swagger, but he's also mastered the impossible art of giving people what they want, of fitting in. What no one knows is that Jack has a newly acquired secret: he can't recognize faces. Even his own brothers are strangers to him. He's the guy who can re-engineer and rebuild anything in new and bad-ass ways, but he can't understand what's going on with the inner workings of his

brain. So he tells himself to play it cool: Be charming. Be hilarious. Don't get too close to anyone. Until he meets Libby. When the two get tangled up in a cruel high school game—which lands them in group counseling and community service—Libby and Jack are both pissed, and then surprised. Because the more time they spend together, the less alone they feel. . . . Because sometimes when you meet someone, it changes the world, theirs and yours. Jennifer Niven delivers another poignant, exhilarating love story about finding that person who sees you for who you are—and seeing them right back. "Niven is adept at creating characters. . . . [Libby's] courage and body-positivity make for a joyful reading experience." --The New York Times "Holding Up the Universe . . . taps into the universal need to be understood. To be wanted. And that's what makes it such a remarkable read." —TeenVogue.com, "Why New Book Holding Up the Universe Is the Next The Fault in Our Stars" "Want a love story that will give you all the feels? . . . You'll seriously melt!" —Seventeen Magazine

Reinventing the Sacred *ReadHowYouWant.com*

Consider the complexity of a living cell after 3.8 billion years of evolution. Is it more awesome to suppose that a transcendent God fashioned the cell at a stroke, or to realize that it evolved with no Almighty Hand, but arose on its own in the c...

The Universe *Harper Collins*

John Brockman brings together the world's best-known physicists and science writers—including Brian Greene, Walter Isaacson, Nobel Prize-winner Frank Wilczek, Benoit Mandelbrot, and Martin

Rees—to explain the universe in all wondrous splendor. In *The Universe*, today's most influential science writers explain the science behind our evolving understanding of the universe and everything in it, including the cutting edge research and discoveries that are shaping our knowledge. Lee Smolin reveals how math and cosmology are helping us create a theory of the whole universe. Benoit Mandelbrot looks back on a career devoted to fractal geometry. Neil Turok analyzes the fundamental laws of nature, what came before the big bang, and the possibility of a unified theory. Seth Lloyd investigates the impact of computational revolutions and the informational revolution. Lawrence Krauss provides fresh insight into gravity, dark matter, and the energy of empty space. Brian Greene and Walter Isaacson illuminate the genius who revolutionized modern science: Albert Einstein. And much more. Explore the universe with some of today's greatest minds: what it is, how it came into being, and what may happen next.

Welcome to the Universe *Princeton University Press*

The New York Times bestselling tour of the cosmos from three of today's leading astrophysicists *Welcome to the Universe* is a personal guided tour of the cosmos by three of today's leading astrophysicists. Inspired by the enormously popular introductory astronomy course that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton, this book covers it all—from planets, stars, and galaxies to black holes, wormholes, and time travel. Describing the latest discoveries in astrophysics, the informative and entertaining narrative propels you from our home solar system to the outermost frontiers of

space. How do stars live and die? Why did Pluto lose its planetary status? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and why is its expansion accelerating? Is our universe alone or part of an infinite multiverse? Answering these and many other questions, the authors open your eyes to the wonders of the cosmos, sharing their knowledge of how the universe works. Breathtaking in scope and stunningly illustrated throughout, *Welcome to the Universe* is for those who hunger for insights into our evolving universe that only world-class astrophysicists can provide.

This Way to the Universe *Penguin*

For readers of Sean Carroll, Brian Greene, Katie Mack, and anyone who wants to know what theoretical physicists actually do. *This Way to the Universe* is a celebration of the astounding, ongoing scientific investigations that have revealed the nature of reality at its smallest, at its largest, and at the scale of our daily lives. The enigmas that Professor Michael Dine discusses are like landmarks on a fantastic journey to the edge of the universe. Asked where to find out about the Big Bang, Dark Matter, the Higgs boson particle—the long cutting edge of physics right now—Dine had no single book he could recommend. This is his accessible, authoritative, and up-to-date answer. Comprehensible to anyone with a high-school level education, with almost no equations, there is no better author to take you on this amazing odyssey. Dine is widely recognized as having made profound contributions to our understanding of matter, time, the Big Bang, and even what might have come before it. *This Way to the*

Universe touches on many emotional, critical points in his extraordinary career while presenting mind-bending physics like his answer to the Dark Matter and Dark Energy mysteries as well as the ideas that explain why our universe consists of something rather than nothing. People assume String Theory can never be tested, but Dine intrepidly explores exactly how the theory might be tested experimentally, as well as the pitfalls of falling in love with math. This book reflects a lifetime pursuing the deepest mysteries of reality, by one of the most humble and warmly engaging voices you will ever read.

Thank You, Universe *Independently Published*

Please think of this notebook as a special space where you can clarify your thoughts, hopes and desires. Use it to ask for guidance and inspiration or to express your love and appreciation for all that is good in your life. Fill it with prayers, affirmations and mantras - anything that will allow you to trust that everything is always working out for you. 120 lined pages. Dimensions: 5" x 8" (12.7 x 20.32 cm) - Plenty of space for writing while being just the right size to fit comfortably in a handbag or backpack.

Is the Universe a Hologram? *MIT Press*

Questions about the physical world, the mind, and technology in conversations that reveal a rich seam of interacting ideas. Science today is more a process of collaboration than moments of individual "eurekas." This book recreates that kind of synergy by offering a series of interconnected dialogues with leading scientists who are asked to reflect on key questions and concepts about the physical world, technology, and the mind. These

thinkers offer both specific observations and broader comments about the intellectual traditions that inform these questions; doing so, they reveal a rich seam of interacting ideas. The persistent paradox of our era is that in a world of unprecedented access to information, many of the most important questions remain unsolved. These conversations (conducted by a veteran science writer, Adolfo Plasencia) reflect this, with scientists addressing such issues as intelligence, consciousness, global warming, energy, technology, matter, the possibility of another earth, changing the past, and even the philosophical curveball, "is the universe a hologram?" The dialogues discuss such fascinating aspects of the physical world as the function of the quantum bit, the primordial cosmology of the universe, and the wisdom of hewn stones. They offer optimistic but reasoned views of technology, considering convergence culture, algorithms, "Beauty $\neq$ Truth," the hacker ethic, AI, and other topics. And they offer perspectives from a range of disciplines on intelligence, discussing subjects that include the neurophysiology of the brain, affective computing, collaborative innovation, and the wisdom of crowds. Conversations with Hal Abelson, Ricardo Baeza-Yates, John Perry Barlow, Javier Benedicto, José Bernabéu, Michail Bletsas, Jose M. Carmena, David Casacuberta, Yung Ho Chang, Ignacio Cirac, Gianluigi Colalucci, Avelino Corma, Bernardo Cuenca Grau, Javier Echeverria, José Hernández-Orallo, Hiroshi Ishii, Pablo Jarillo-Herrero, Henry Jenkins, Anne Margulies, Mario J. Molina, Tim O'Reilly, John Ochsendorf, Paul Osterman, Alvaro Pascual-Leone, Rosalind W. Picard, Howard Rheingold, Alejandro W. Rodriguez, Israel Ruiz, Sara Seager, Richard Stallman, Antonio Torralba, Bebo White, José María Yturralde

The Skeptics' Guide to the Universe *Grand Central Publishing*

An all-encompassing guide to skeptical thinking from podcast host and academic neurologist at Yale University School of Medicine Steven Novella and his SGU co-hosts, which Richard Wiseman calls "the perfect primer for anyone who wants to separate fact from fiction." It is intimidating to realize that we live in a world overflowing with misinformation, bias, myths, deception, and flawed knowledge. There really are no ultimate authority figures-no one has the secret, and there is no place to look up the definitive answers to our questions (not even Google). Luckily, *The Skeptic's Guide to the Universe* is your map through this maze of modern life. Here Dr. Steven Novella-along with Bob Novella, Cara Santa Maria, Jay Novella, and Evan Bernstein-will explain the tenets of skeptical thinking and debunk some of the biggest scientific myths, fallacies, and conspiracy theories-from anti-vaccines to homeopathy, UFO sightings to N- rays. You'll learn the difference between science and pseudoscience, essential critical thinking skills, ways to discuss conspiracy theories with that crazy co- worker of yours, and how to combat sloppy reasoning, bad arguments, and superstitious thinking. So are you ready to join them on an epic scientific quest, one that has taken us from huddling in dark caves to setting foot on the moon? (Yes, we really did that.) DON'T PANIC! With *The Skeptic's Guide to the Universe*, we can do this together. "Thorough, informative, and enlightening, *The Skeptic's Guide to the Universe* inoculates you against the frailties and shortcomings of human cognition. If this book does not become required reading for us all, we may well see modern civilization unravel before our eyes." -- Neil deGrasse Tyson "In this age of real and fake

information, your ability to reason, to think in scientifically skeptical fashion, is the most important skill you can have. Read

The Skeptics' Guide Universe; get better at reasoning. And if this claim about the importance of reason is wrong, The Skeptics' Guide will help you figure that out, too." -- Bill Nye