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New York Times Best Seller
How will Artificial

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Intelligence affect crime, war, justice, jobs, society and our very sense of being human? The rise of AI has the potential to transform our future more than any other technology—and there's nobody better qualified or

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situated to explore that future than Max Tegmark, an MIT professor who's helped mainstream research on how to keep AI beneficial. How can we grow our prosperity through automation without leaving people lacking

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income or purpose? What career advice should we give today's kids? How can we make future AI systems more robust, so that they do what we want without crashing, malfunctioning or getting hacked? Should we fear an

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arms race in lethal autonomous weapons? Will machines eventually outsmart us at all tasks, replacing humans on the job market and perhaps altogether? Will AI help life flourish like never before or give us more

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power than we can handle? What sort of future do you want? This book empowers you to join what may be the most important conversation of our time. It doesn't shy away from the full range of viewpoints or from the most

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controversial issues—from superintelligence to meaning, consciousness and the ultimate physical limits on life in the cosmos.

A journey through 55 alternative realities, parallel worlds and possible

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futures. It's lucky you're here. But for a series of incredible coincidences and roads not taken, your life could be very different. The same goes for reality. We live in just one of many possible worlds. In others,

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dinosaurs still rule the Earth, the Russians got to the Moon first, time flows backwards and everyone is vegetarian. And that's just for starters. What if the laws of physics were different? If we really did

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live in a multiverse? If robots became smarter than us? If humans were wiped off the face of the planet? Join New Scientist on a thrilling journey through these and dozens of other incredible but perfectly possible

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alternative realities,
thought experiments and
counterfactual histories
-each shining a surprising
and unexpected spotlight on
life as we know it.

Bestselling author and
astrophysicist Mario Livio

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examines the lives and theories of history's greatest mathematicians to ask how—if mathematics is an abstract construction of the human mind—it can so perfectly explain the physical world. Nobel

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Laureate Eugene Wigner once wondered about “the unreasonable effectiveness of mathematics” in the formulation of the laws of nature. Is God a Mathematician? investigates why mathematics is as

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powerful as it is. From ancient times to the present, scientists and philosophers have marveled at how such a seemingly abstract discipline could so perfectly explain the natural world. More than

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that—mathematics has often made predictions, for example, about subatomic particles or cosmic phenomena that were unknown at the time, but later were proven to be true. Is mathematics ultimately

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invented or discovered? If, as Einstein insisted, mathematics is “a product of human thought that is independent of experience,” how can it so accurately describe and even predict the world around us?

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Physicist and author Mario Livio brilliantly explores mathematical ideas from Pythagoras to the present day as he shows us how intriguing questions and ingenious answers have led to ever deeper insights into

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our world. This fascinating book will interest anyone curious about the human mind, the scientific world, and the relationship between them.

Springing from physics, and featured in science fiction,

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the "Parallel Worlds Theory" is an earth-shattering revision of our understanding of reality. It says, simply, that everything that can happen does. Universes branch and branch in time, one for

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every alternate possibility. Far more than an intellectual exercise, the parallel universe principle can be applied in personal reality and everyday life. You can "create" your reality by becoming the

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parallel-world version of yourself for whom the experience you want is already real. This is your roadmap, your guidebook, to Parallel Universes of Self. The Epic Guide To Unlimited Power

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Parallel Universes and the
Deep Laws of the Cosmos
Hyperspace

A Philosophy of Modern
Physics

How Science Will Shape Human
Destiny and Our Daily Lives
by the Year 2100

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Something Deeply Hidden
Parallel Worlds

Physicists argue from different perspectives for and against the idea of the existence of multiple universes.

Imagine, if you can, the world in

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the year 2100. In Physics of the Future, Michio Kaku—the New York Times bestselling author of Physics of the Impossible—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with

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over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most authoritative and scientifically accurate description of the revolutionary developments

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***taking place in medicine,
computers, artificial intelligence,
nanotechnology, energy
production, and astronautics. In
all likelihood, by 2100 we will
control computers via tiny brain
sensors and, like magicians,***

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move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world's information base or

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conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on

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powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA

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***sensors and nanoparticles
patrolling our blood cells will
silently scan our bodies for the
first sign of illness, while rapid
advances in genetic research will
enable us to slow down or
maybe even reverse the aging***

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process, allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps

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visit nearby stars. Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing

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revelations are only the tip of the iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world

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economy. He addresses the key questions: Who are the winner and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining

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the rate at which certain technologies are likely to mature, how far they can advance, and what their ultimate limitations and hazards are. Synthesizing a vast amount of information to construct an exciting look at the

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***years leading up to 2100,
Physics of the Future is a
thrilling, wondrous ride through
the next 100 years of
breathtaking scientific
revolution.
Scientific experts explore the***

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***ideas behind the hit TV show.
Fringe Science delves into the
science, science fiction, and
pseudoscience of Fringe with a
collection of essays on
everything from alternate
universes to time travel to***

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genetically targeted toxins, as well as discussions on the show's moral philosophy and the consequences of playing God. MIT physics professor Max Tegmark illuminates the real-life possibilities of parallel universes

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Stephen Cass, founding editor of Discover's Science Not Fiction blog and a senior editor with MIT Technology Review, unravels Fringe's use of time travel Award-winning science fiction historian Amy H. Sturgis walks

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***us through the show's literary
and television ancestors, from
the 1800s on Television Without
Pity staff writer Jacob Clifton
looks at the role of the scientist,
and scientific redemption,
through the ever-shifting role of***

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Massive Dynamic Garth Sundem, bestselling author of Brain Candy, explores the mysterious way that memory works, from why Walter forgets to how Olivia remembers Paul Levinson, award-winning author of The Silk Code,

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***shows how Fringe re-invents
themes from golden-age 1950s
science fiction And more, from
lab cow Gene's scientific
résumé to why the Observers
should be wearing white lab
coats.***

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***A Leading Figure in the
Development of the New
Cosmology Explains What It All
Means Among his peers, Alex
Vilenkin is regarded as one of
the most imaginative and
creative cosmologists of our***

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time. His contributions to our current understanding of the universe include a number of novel ideas, two of which—eternal cosmic inflation and the quantum creation of the universe from nothing—have provided a

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scientific foundation for the possible existence of multiple universes. With this book—his first for the general reader—Vilenkin joins another select group: the handful of first-rank scientists who are equally

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adept at explaining their work to nonspecialists. With engaging, well-paced storytelling, a droll sense of humor, and a generous sprinkling of helpful cartoons, he conjures up a bizarre and fascinating new worldview

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***that—to paraphrase Niels
Bohr—just might be crazy enough
to be true.***

The End of Time

Many Worlds in One

***Information—Consciousness—Rea
lity***

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Physics of the Future

Making Sense

Fringe Science

The Emerging Science of

Spontaneous Order

Reissued in new covers, this is the runaway bestseller from one of the world's

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leading theoretical physicists. Are there other dimensions beyond our own? Is time travel possible? Michio Kaku takes us on a tour of the most exciting work in modern physics, including research into the 10th dimension, time warps, and multiple universes, to outline what may

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be the leading candidate for the Theory of Everything.

"Legend is overdue for replacement, and an adequate replacement must attend to the process of science as carefully as Hull has done. I share his vision of a serious account of the social and

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intellectual dynamics of science that will avoid both the rosy blur of Legend and the facile charms of relativism. . . . Because of [Hull's] deep concern with the ways in which research is actually done, Science as a Process begins an important project in the study of science.

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It is one of a distinguished series of books, which Hull himself edits."—Philip Kitcher, Nature "In Science as a Process, [David Hull] argues that the tension between cooperation and competition is exactly what makes science so successful. . . .

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Hull takes an unusual approach to his subject. He applies the rules of evolution in nature to the evolution of science, arguing that the same kinds of forces responsible for shaping the rise and demise of species also act on the development of scientific

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ideas."—Natalie Angier, New York Times Book Review "By far the most professional and thorough case in favour of an evolutionary philosophy of science ever to have been made. It contains excellent short histories of evolutionary biology and of systematics

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*(the science of classifying living things);
an important and original account of
modern systematic controversy; a
counter-attack against the philosophical
critics of evolutionary philosophy; social-
psychological evidence, collected by Hull
himself, to show that science does have*

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the character demanded by his philosophy; and a philosophical analysis of evolution which is general enough to apply to both biological and historical change."—Mark Ridley, *Times Literary Supplement* "Hull is primarily interested in how social interactions within the

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scientific community can help or hinder the process by which new theories and techniques get accepted. . . . The claim that science is a process for selecting out the best new ideas is not a new one, but Hull tells us exactly how scientists go about it, and he is prepared to accept

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that at least to some extent, the social activities of the scientists promoting a new idea can affect its chances of being accepted."—Peter J. Bowler, Archives of Natural History "I have been doing philosophy of science now for twenty-five years, and whilst I would never

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have claimed that I knew everything, I felt that I had a really good handle on the nature of science, Again and again, Hull was able to show me just how incomplete my understanding was. . . . Moreover, [Science as a Process] is one of the most compulsively readable books

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*that I have ever encountered."—Michael
Ruse, *Biology and Philosophy**

*It's lucky you're here. But for a series of
choices, accidents and coincidences - any
of which could have gone otherwise -
your life would have been very
different. The same goes for reality. We*

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live in just one of many possible worlds - but we can imagine parallel universes in which dinosaurs still rule the Earth, the Russians got to the moon first, everyone's a vegetarian or time itself flows backwards. And that's just for starters. What if the laws of physics

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were different? What if robots become smarter than us? Or, if every human on the planet simply vanished tomorrow? The answers to these questions aren't just fun to consider, but reveal deep truths about our own universe. Join New Scientist on a thrilling journey through

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dozens of incredible but perfectly possible alternative realities, thought experiments and counterfactual histories - each shining a surprising and unexpected spotlight on life as we know it.

The author discusses his life and work in

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*physics, astronomy, and mathematics,
most particularly his hypothesis that our
physical reality is a mathematical
structure and his theory of the ultimate
multiverse.*

Life 3.0

Parallel Universes, White Tulips, and

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Mad Scientists

Science and Ultimate Reality

*My Quest for the Ultimate Nature of
Reality*

The Simulation Hypothesis

Worlds Without End

The Universe Next Door

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The "Theory of Nothing" explores the radical idea that the reality we see around us is but one of an infinite "library" of alternate realities, the sum of which contains no information and is in fact "Nothing". The necessity for observed reality to

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be consistent with the observer's existence implies a strong connection between fundamental physics and cognitive science. A revolutionary understanding of why physics has the form it does, and why our minds are the way they are

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is forged.

*The untold story of the heretical
thinkers who dared to question the
nature of our quantum universe
Every physicist agrees quantum
mechanics is among humanity's
finest scientific achievements. But*

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ask what it means, and the result will be a brawl. For a century, most physicists have followed Niels Bohr's Copenhagen interpretation and dismissed questions about the reality underlying quantum physics as meaningless. A mishmash of

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solipsism and poor reasoning, Copenhagen endured, as Bohr's students vigorously protected his legacy, and the physics community favored practical experiments over philosophical arguments. As a result, questioning the status quo

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long meant professional ruin. And yet, from the 1920s to today, physicists like John Bell, David Bohm, and Hugh Everett persisted in seeking the true meaning of quantum mechanics. What Is Real? is the gripping story of this battle of

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*ideas and the courageous scientists
who dared to stand up for truth.*

*Our Mathematical Universe My
Quest for the Ultimate Nature of
Reality Vintage*

*This fascinating volume, taking
readers from the blood religious*

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strife of the 16th century to the battlefields of the English civil war, recounts the epic battle over a simple, yet "forbidden," mathematical concept that would eventually become the foundation of calculus. 30,000 first printing.

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Programming the Universe

The Nature of Physical Reality

Parallel Universes of Self

The Many Lives of the Multiverse

*A Journey Through Creation, Higher
Dimensions, And the Future of the
Cosmos*

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*Moving Through Parallel Worlds To
Achieve Your Dreams*

*The Many-Worlds Interpretation of
Quantum Mechanics*

The bestselling author of *The
Elegant Universe* and *The Fabric of
the Cosmos* tackles perhaps the

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most mind-bending question in modern physics and cosmology: Is our universe the only universe? There was a time when "universe" meant all there is. Everything. Yet, a number of theories are converging on the possibility that

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our universe may be but one among many parallel universes populating a vast multiverse. Here, Briane Greene, one of our foremost physicists and science writers, takes us on a breathtaking journey to a multiverse comprising an

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endless series of big bangs, a multiverse with duplicates of every one of us, a multiverse populated by vast sheets of spacetime, a multiverse in which all we consider real are holographic illusions, and even a multiverse made purely of

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math--and reveals the reality hidden within each. Using his trademark wit and precision, Greene presents a thrilling survey of cutting-edge physics and confronts the inevitable question: How can fundamental science

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progress if great swaths of reality lie beyond our reach? The Hidden Reality is a remarkable adventure through a world more vast and strange than anything we could have imagined.

Possibilities in Parallel: Seeking the

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Multiverse by the Editors of Scientific American Parallel universes are a staple of science fiction, and it's no wonder. They allow us to explore the question, "what if?" in a way that lets us step completely outside of the world we

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know, rather than question how that world might have turned out differently. For cosmologists, the question isn't "what if the South won the Civil War?" but "what if the constants that make up the fundamental building blocks of

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physics were different?" Physicists argue that any slight change to the laws of physics would mean a disruption in the evolution of the universe, and thus our existence. Take gravity, for example: too strong and stars would burn

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through their fuel far more quickly. If the universe expanded too fast, matter would spread out too thin for galaxies to form. The list of examples goes on – to the point where the laws of physics might seem finely tuned to make our

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existence possible. Short of a supernatural or divine explanation, one possibility is that our universe isn't the only one. That's the idea explored in this eBook, Possibilities in Parallel: Seeking the Multiverse. In Section 1, we explore why

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scientists think other universes could exist. After that, we get a look at the implications. Is it possible to have life in a universe with different physical laws? It would seem so. In "Cracking Open a Window," George Musser discusses the

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possibility that our universe has more than three spatial dimensions – the others happen to be very small. Other articles, including "The Universe's Unseen Dimensions," analyze the idea that our universe is one of many "branes" – three-

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dimensional structures stretched out over a higher-dimensional space. The concept of a parallel universe also touches time travel, and then there's the question of what the term "parallel universe" actually means. It's a triumph of the

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sciences that the very question of why the universe looks as it does can be asked at all. There are currently several possibilities for a multiverse, if it exists. Time and a lot of scientific spadework will reveal which one is right – and get

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us closer to answering those metaphysical questions: what if, why us, why now?

Our universe seems strangely "biophilic," or hospitable to life. Is this happenstance, providence, or coincidence? According to

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cosmologist Martin Rees, the answer depends on the answer to another question, the one posed by Einstein's famous remark: "What interests me most is whether God could have made the world differently." This highly engaging

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book explores the fascinating consequences of the answer being "yes." Rees explores the notion that our universe is just a part of a vast "multiverse," or ensemble of universes, in which most of the other universes are lifeless. What

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we call the laws of nature would then be no more than local bylaws, imposed in the aftermath of our own Big Bang. In this scenario, our cosmic habitat would be a special, possibly unique universe where the prevailing laws of physics allowed

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life to emerge. Rees begins by exploring the nature of our solar system and examining a range of related issues such as whether our universe is or isn't infinite. He asks, for example: How likely is life? How credible is the Big Bang theory?

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Rees then peers into the long-range cosmic future before tracing the causal chain backward to the beginning. He concludes by trying to untangle the paradoxical notion that our entire universe, stretching 10 billion light-years in all

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directions, emerged from an infinitesimal speck. As Rees argues, we may already have intimations of other universes. But the fate of the multiverse concept depends on the still-unknown bedrock nature of space and time

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on scales a trillion trillion times smaller than atoms, in the realm governed by the quantum physics of gravity. Expanding our comprehension of the cosmos, Our Cosmic Habitat will be read and enjoyed by all those--scientists and

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nonscientists alike--who are as fascinated by the universe we inhabit as is the author himself. A New York Times New and Noteworthy Book From the bestselling author of Waking Up and The End of Faith, an

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adaptation of his wildly popular, often controversial podcast "Sam Harris is the most intellectually courageous man I know, unafraid to speak truths out in the open where others keep those very same thoughts buried, fearful of the

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modish thought police. With his literate intelligence and fluency with words, he brings out the best in his guests, including those with whom he disagrees." -- Richard Dawkins, author of *The Selfish Gene*

"Civilization rests on a series of

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successful conversations.” —Sam Harris Sam Harris—neuroscientist, philosopher, and bestselling author—has been exploring some of the most important questions about the human mind, society, and current events on his podcast,

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Making Sense. With over one million downloads per episode, these discussions have clearly hit a nerve, frequently walking a tightrope where either host or guest—and sometimes both—lose their footing, but always in search

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of a greater understanding of the world in which we live. For Harris, honest conversation, no matter how difficult or controversial, represents the only path to moral and intellectual progress. This book includes a dozen of the best

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conversations from Making Sense, including talks with Daniel Kahneman, Timothy Snyder, Nick Bostrom, and Glenn Loury, on topics that range from the nature of consciousness and free will, to politics and extremism, to living

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ethically. Together they shine a light on what it means to “make sense” in the modern world.

A Scientific Odyssey Through
Parallel Universes, Time Warps,
and the Tenth Dimension
Parallel Universes

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Possibilities in Parallel
Theory of Nothing
Is God a Mathematician?
Multiple Universes, Mutual Assured
Destruction, and the Meltdown of a
Nuclear Family
New Edition

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Peter Byrne tells the story of Hugh Everett III (1930-1982), whose "many worlds" theory of multiple universes has had a profound impact on physics and philosophy. Using Everett's unpublished papers (recently discovered in his son's basement) and

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dozens of interviews with his friends, colleagues, and surviving family members, Byrne paints, for the general reader, a detailed portrait of the genius who invented an astonishing way of describing our complex universe from the inside. Everett's mathematical

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model (called the "universal wave function") treats all possible events as "equally real", and concludes that countless copies of every person and thing exist in all possible configurations spread over an infinity of universes: many worlds. Afflicted by depression

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and addictions, Everett strove to bring rational order to the professional realms in which he played historically significant roles. In addition to his famous interpretation of quantum mechanics, Everett wrote a classic paper in game theory; created

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computer algorithms that revolutionized military operations research; and performed pioneering work in artificial intelligence for top secret government projects. He wrote the original software for targeting cities in a nuclear hot war; and he was one of

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the first scientists to recognize the danger of nuclear winter. As a Cold Warrior, he designed logical systems that modeled "rational" human and machine behaviors, and yet he was largely oblivious to the emotional damage his irrational personal

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behavior inflicted upon his family, lovers, and business partners. He died young, but left behind a fascinating record of his life, including correspondence with such philosophically inclined physicists as Niels Bohr, Norbert Wiener, and John

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Wheeler. These remarkable letters illuminate the long and often bitter struggle to explain the paradox of measurement at the heart of quantum physics. In recent years, Everett's solution to this mysterious problem - the existence of a universe of universes

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- has gained considerable traction in scientific circles, not as science fiction, but as an explanation of physical reality.

Paul Durham keeps making Copies of himself: software simulations of his own brain and body which can be run in

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virtual reality, albeit seventeen times more slowly than real time. He wants them to be his guinea pigs for a set of experiments about the nature of artificial intelligence, time, and causality, but they keep changing their mind and bailing out on him, shutting

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themselves down. Maria Deluca is an Autoverse addict; she ' s unemployed and running out of money, but she can ' t stop wasting her time playing around with the cellular automaton known as the Autoverse, a virtual world that follows a simple set of

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mathematical rules as its “ laws of physics ” . Paul makes Maria a very strange offer: he asks her to design a seed for an entire virtual biosphere able to exist inside the Autoverse, modelled right down to the molecular level. The job will pay well, and will allow her to

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indulge her obsession. There has to be a catch, though, because such a seed would be useless without a simulation of the Autoverse large enough to allow the resulting biosphere to grow and flourish — a feat far beyond the capacity of all the computers in the

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world.

Max Tegmark leads us on an astonishing journey through past, present and future, and through the physics, astronomy and mathematics that are the foundation of his work, most particularly his hypothesis that

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idea that time is an illusion has been a religious and philosophical commonplace. We identify certain truths as 'eternal' constants, from moral principles to the laws of mathematics and nature: these are laws that exist not inside time, but outside it.

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From Newton and Einstein to today's string theorists and quantum physicists, the widest consensus is that the universe is governed by absolute, timeless laws. In *Time Reborn*, Lee Smolin argues that this denial of time is holding back both physics, and our

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understanding of the universe. We need a major revolution in scientific thought: one that embraces the reality of time and places it at the centre of our thinking. E may equal mc^2 now, but that wasn't always the case. Similarly, as our understanding of the

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universe develops, Newton's fundamental laws might not remain so fundamental. Time, Smolin concludes, is not an illusion: it is the best clue we have to fundamental reality. Time Reborn explains how the true nature of time impacts on us, our world, and our

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tremendous job' Mail on Sunday Lee Smolin is a theoretical physicist who has made important contributions to the search for quantum gravity. Born in New York City, he was educated at Hampshire College and Harvard University. Since 2001 he is a founding

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faculty member at Perimeter Institute for Theoretical Physics. His three earlier books explore philosophical issues raised by contemporary physics and cosmology. They are *Life of the Cosmos* (1997), *Three Roads to Quantum Gravity* (2001) and *The*

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Trouble with Physics (2006). He lives in Toronto.

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CONTEMPORARY SCIENCE.

□Multiverse□ cosmologies imagine our universe as just one of a vast number of others. While this idea has captivated philosophy, religion, and literature for millennia, it is now being considered as a scientific

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forerunners and explores their current emergence. One reason is the so-called fine-tuning of the universe: nature's constants are so delicately calibrated, it seems they have been set just right to allow life to emerge. For some theologians,

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these "fine-tunings" are proof of God; for others, "God" is an insufficient explanation. One compelling solution: if all possible worlds exist somewhere, then it is no surprise one of them happens to be suitable for life. Yet this

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hypothesis replaces God with an
equally baffling article of faith: the
existence of universes beyond,
before, or after our own, eternally
generated yet forever inaccessible.
In sidestepping metaphysics,
multiverse scenarios collide with it,

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producing their own counter-
theological narratives. Rubenstein
argues, however, that this
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Changed Our Understanding of Life
and the Universe

Time Reborn

This open access book
chronicles the rise of a new
scientific paradigm offering
novel insights into the age-old

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enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the

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cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer

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shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder

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explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

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Publisher Description

The Simulation Hypothesis, by best-selling author, renowned MIT computer scientist and Silicon Valley video game designer Rizwan Virk, is the first serious book to explain

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one of the most daring and consequential theories of our time. Riz is the Executive Director of Play Labs @ MIT, a video game startup incubator at the MIT Game Lab. Drawing from research and concepts

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from computer science, artificial intelligence, video games, quantum physics, and referencing both speculative fiction and ancient eastern spiritual texts, Virk shows how all of these traditions come

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together to point to the idea that we may be inside a simulated reality like the Matrix. The Simulation Hypothesis is the idea that our physical reality, far from being a solid physical universe, is

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part of an increasingly sophisticated video game-like simulation, where we all have multiple lives, consisting of pixels with its own internal clock run by some giant Artificial Intelligence.

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Simulation theory explains some of the biggest mysteries of quantum and relativistic physics, such as quantum indeterminacy, parallel universes, and the integral nature of the speed of light.

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Recently, the idea that we may be living in a giant video game has received a lot of attention: "There's a one in a billion chance we are not living in a simulation" -Elon Musk "I find it hard to argue we are not in a

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simulation.” -Neil deGrasse

Tyson “We are living in computer generated reality.”

-Philip K. Dick Video game technology has developed from basic arcade and text adventures to MMORPGs. Video

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game designer Riz Virk shows how these games may continue to evolve in the future, including virtual reality, augmented reality, Artificial Intelligence, and quantum computing. This book shows

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how this evolution could lead us to the point of being able to develop all encompassing virtual worlds like the Oasis in Ready Player One, or the simulated reality in the Matrix. While the idea sounds like

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science fiction, many scientists, engineers, and professors have given the Simulation Hypothesis serious consideration. Futurist Ray Kurzweil has popularized the idea of downloading our

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consciousness into a silicon based device, which would mean we are just digital information after all. Some, like Oxford lecturer Nick Bostrom, goes further and thinks we may in fact be artificially

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intelligent consciousness inside such a simulation already! But the Simulation Hypothesis is not just a modern idea. Philosophers like Plato have been telling us that we live in a "cave" and can only see

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shadows of the real world. Mystics of all traditions have long contended that we are living in some kind of “illusion” and that there are other realities which we can access with our minds. While even

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Judeo-Christian traditions have this idea, Eastern traditions like Buddhism and Hinduism make this idea part of their core tradition — that we are inside a dream world (“Maya” or illusion, or Vishnu's Dream),

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and we have “multiple lives” playing different characters when one dies, continuing to gain experience and “level up” after completing certain challenges. Sounds a lot like a video game! Whether you are a

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computer scientist, a fan of science fiction like the Matrix movies, a video game enthusiast, or a spiritual seeker, The Simulation Hypothesis touches on all these areas, and you will never

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created. Sean Carroll, theoretical physicist and one of this world's most celebrated writers on science, rewrites the history of 20th century physics. Already hailed as a masterpiece, Something

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Deeply Hidden shows for the first time that facing up to the essential puzzle of quantum mechanics utterly transforms how we think about space and time. His reconciling of quantum mechanics with

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Einstein's theory of relativity changes, well, everything. Most physicists haven't even recognized the uncomfortable truth: physics has been in crisis since 1927. Quantum mechanics has always had

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obvious gaps—which have come to be simply ignored. Science popularizers keep telling us how weird it is, how impossible it is to understand. Academics discourage students from working on the "dead

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end" of quantum foundations. Putting his professional reputation on the line with this audacious yet entirely reasonable book, Carroll says that the crisis can now come to an end. We just have to accept

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that there is more than one of us in the universe. There are many, many Sean Carrolls. Many of every one of us. Copies of you are generated thousands of times per second. The Many Worlds Theory of

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quantum behavior says that every time there is a quantum event, a world splits off with everything in it the same, except in that other world the quantum event didn't happen. Step-by-step in Carroll's

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uniquely lucid way, he tackles the major objections to this otherworldly revelation until his case is inescapably established. Rarely does a book so fully reorganize how we think about our place in the

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*A novel interpretation of quantum
mechanics, first proposed in brief
form by Hugh Everett in 1957,
forms the nucleus around which
this book has developed. In his
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the existence of a separate classical realm and asserts the propriety of considering a state vector for the whole universe. Because this state vector never collapses, reality as a whole is rigorously deterministic. This reality, which is described jointly

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by the dynamical variables and the state vector, is not the reality customarily perceived; rather, it is a reality composed of many worlds. By virtue of the temporal development of the dynamical variables, the state vector decomposes naturally into

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orthogonal vectors, reflecting a continual splitting of the universe into a multitude of mutually unobservable but equally real worlds, in each of which every good measurement has yielded a definite result, and in most of which the familiar statistical

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quantum laws hold. The volume contains Dr. Everett's short paper from 1957, "'Relative State' Formulation of Quantum Mechanics," and a far longer exposition of his interpretation, entitled "The Theory of the Universal Wave Function," never

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before published. In addition, other papers by Wheeler, DeWitt, Graham, and Cooper and Van Vechten provide further discussion of the same theme. Together, they constitute virtually the entire world output of scholarly commentary on the

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convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately? “Its own dynamical evolution,” he says. “As the computation proceeds, reality unfolds.”

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Programming the Universe, a wonderfully accessible book, presents an original and compelling vision of reality, revealing our world in an entirely new light.

Richard Feynman once quipped that "Time is what happens when

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nothing else does." But Julian Barbour disagrees: if nothing happened, if nothing changed, then time would stop. For time is nothing but change. It is change that we perceive occurring all around us, not time. Put simply, time does not exist. In this highly

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the greatest scientists in history -- Charles Darwin, William Thomson (Lord Kelvin), Linus Pauling, Fred Hoyle, Albert Einstein. But the mistakes that these great scientists made helped science to advance. Indeed, as Mario Livio explains in this fascinating book,

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errors to show where they were wrong and right, but what makes his book so enjoyable to read is Livio's analysis of the psychology of these towering figures. Along the way the reader learns an enormous amount about the evolution of life on earth and in

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the universe, but from an unusual vantage point -- the mistakes of great scientists rather than the achievements that made them famous.

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Quantum physics has revealed that objects can exist in more than one location simultaneously, even though the objects are invisible to us in all

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but one location, that is, parallel universes exist. This is most blatantly revealed in the mind shattering 'double-slit' experiment and is at the core of what is called 'the measurement problem,' in quantum physics. The results are startling, but this is what the science is clearly

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showing. It is human awareness that causes matter to fix into a single position, and reveal a single reality. The science is showing that at every moment we become aware of our reality, the universe splits into unseen parallel dimensions and we become trapped in just one of these

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