

The New Quantum Universe Tony Hey

Quantum physics explores the behavior of matter and energy at the molecular, atomic, nuclear, and even smaller levels. *Idiot's Guides: Quantum Physics* makes this very complex topic easy to understand. It skips the complicated math and dives right into all the concepts, paradoxes, thought experiments, and implications that make quantum mechanics so fascinating to armchair science buffs. Topics covered include: - Quantum vs. classical physics - A look at the smallest known particles - How the tiniest particles behave both as particles and waves - The famous double-slit experiment - Quantum wave function - The Heisenberg Uncertainty Principle - How particles can be in multiple places at once - Quantum entanglement - The Schrodinger's cat thought experiment - Competing interpretations of quantum physics - The Copenhagen interpretation and need for an observer - The role of consciousness in quantum theory - The Many Worlds interpretation and parallel universes - Building a quantum computer - Quantum gravity and the search for a theory of everything

Paper Moon is round, old and ... sleepy. Against a prismatic palette of intriguing textures, *Paper Moon* slips away to dream his own dreams. Children and adults alike will enjoy the soothing visuals and musical verse of this charming bedtime story.

During a chance night shift on the cops beat, newsroom assistant Madeleine Harrington stumbles on the corruption story of a lifetime – a plot that would reshape the entire city. She teams up with her dad, a downtrodden columnist at the paper, to unearth the mystery. The muckrakers find the plot goes deeper – and contains more skeletons among the city's powerbrokers – than they imagined.

The Theory of Special Relativity is one of the most profound discoveries of the twentieth century. *Einstein's Mirror* blends a simple, nonmathematical account of the theory of special relativity and gravitation with a description of the way experiments have triumphantly supported these theories. The authors explore the many applications of relativity in atomic and nuclear physics, which are many and range from satellite navigation systems, particle accelerators and nuclear power to quantum chemistry, antimatter and black holes. The book also features a superb collection of photographs and includes amusing anecdotes and biographies about the early pioneers. In the closing chapter, the authors examine the influence of Einstein's relativity on the development of science fiction. General readers with an interest in science will enjoy and benefit from this fascinating and accessible introduction to one of the most important areas of physics.

The *Quantum Universe* is the first popular book to give a non-mathematical pictorial account of quantum physics, the foundation of our current understanding of nature. For so long the province of mathematicians and physicists alone, the beauty and significance of quantum mechanics has remained hidden to the nonspecialist. Yet its impact on technology has been enormous. The modern electronics industry with the silicon chip that has revolutionised so many aspects of modern life owes its existence to an understanding of the quantum nature of semiconductors. The text explains exactly what quantum mechanics is in a simple nonmathematical way, and is complemented throughout by many superb colour and black-and-white photographs illustrating the varied facets of quantum phenomena. The *Quantum Universe* will provide a fascinating and accessible introduction to one of the most important scientific disciplines of the twentieth century. Final-year students at school, general readers with an interest in science, and undergraduates in science subjects will all be able to enjoy and benefit from this novel exposition.

Childhood memories become warm and rose colored, "and that's as it should be," so said an old friend of mine who shared more than a few with me. Mine, too, are warm and rose colored; but also vivid. Yes, I really do remember being in a crib. Folks challenge me on that once in a while. But for how much longer, I'm not sure. Once the mental concrete hardens, I'll be left with

what I can glean from pictures and second hand accounts. So I wrote this book. And of course, one memory led to another. Eleven years of them, the ones I spent growing up Brooklyn. What follows are the good stories of the people who mattered - still matter - to me. Today more than ever, I look at them with warm, rose colored sight, content that my earliest memories are true and valuable.

Quantum physics studies the boundary zone between the physical part of the universe and the nonphysical realm. The Bible frequently refers to the non-physical realm as the unseen or spiritual realm. So, quantum physics has a lot to say about how the spiritual realm works, but there are many confusing and inaccurate interpretations out there in popular media these days. This book will provide simple and easy ways to demystify quantum physics and to understand the Bible. We will lift the veil of the confusion surrounding the unseen realm as we explore many intriguing scientific discoveries that show us about Heaven's reality. We will also see how well the latest discoveries about the unseen realm point back to realities revealed in Scripture. The result is a blast for fans of science, science fiction, and fantasy.

A guide to everything you need and want to know about quantum physics, how our universe works and our existence in it. Quantum physics is the most cutting-edge, important and fascinating area of modern science. We have all heard of Einstein's theory of relativity and Schrodinger's Cat - but do we really understand the mind-bending theories of our universe? In 50 concise chapters, Joanne Baker covers the foundation concepts of quantum physics and moves on to present clear explanations of complex theories and their advanced applications - from string theory to black holes, and quarks to quantum computing. With informative two-colour illustrations alongside key ideas in straightforward, bite-sized chunks, this book will teach you everything you need to know about quantum physics - and challenge the way you understand the world. The ideas explored include: Theory of relativity; Schrödinger's cat; Nuclear forces: fission and fusion; Antimatter; Superconductivity.

At just twenty-two years of age, Briana Mills finds herself at a desperate crossroads. Once a promising student at the University of Oregon, she now finds herself alone on the streets of Portland with only the clothes on her back, memories of a happier time, and the stray dog that's adopted her. And she's got the drug that helps her forget. Briana's mistakes haunt her, lashing her with severe consequence, forcing her to make a decision few would ever make. Still, in a final attempt to make her young life count for something, Briana begins writing it all down—everything—so that others walking the crumbling precipice of rebellion might leap to safety before it's too late. She writes about her present struggles and the past. She writes about Michael, the boy she loved and left behind when she went off to college. She writes about the violent activism and drug that derailed her life. She writes about the demands placed on her by a socially conscious mother, and the adoration shown by a proud father. And Briana talks about Brody—the young activist leader who captured her heart, took it to the altar, and then crushed it. What develops is an engrossing record of a young and troubled life, one both beautiful and ugly, innocent and corrupt, lost and then found. And wrapped in its literary sinew is a cast of characters as diverse and engaging as the stars, and an impassioned love story sure to transcend time. What readers are saying: "Timeless...provocative." "Characters so real you'd swear this was a true account." "A brilliant read!" Alone Among People is D. M. Anthony's first novel. He lives in California where he's at work on his next book. This review is from: Alone Among People (Paperback) A Compelling and Heart Warming Story, September 25, 2012 "Alone Among People is at once an engaging, moving story and a provocative statement about the thin line between thriving and sinking into an abyss as inescapable as quicksand. Its timeless and uplifting messages of hope conquering despair, healing borne of love and care, and peace at discovering one's identity are an inspiration. The author's empathy for the characters and their plight betrays knowledge of what he writes, and offers the reader a unique glimpse into a vulnerable and intimate place... his heart. I recommend this book to anyone who

has traveled through the anguish of darkness and longed for the light; it may just guide your way."

In *The Quantum Universe*, Brian Cox and Jeff Forshaw approach the world of quantum mechanics in the same way they did in *Why Does $E=mc^2$?* and make fundamental scientific principles accessible—and fascinating—to everyone. The subatomic realm has a reputation for weirdness, spawning any number of profound misunderstandings, journeys into Eastern mysticism, and woolly pronouncements on the interconnectedness of all things. Cox and Forshaw's contention? There is no need for quantum mechanics to be viewed this way. There is a lot of mileage in the "weirdness" of the quantum world, and it often leads to confusion and, frankly, bad science. *The Quantum Universe* cuts through the Wu Li and asks what observations of the natural world made it necessary, how it was constructed, and why we are confident that, for all its apparent strangeness, it is a good theory. The quantum mechanics of *The Quantum Universe* provide a concrete model of nature that is comparable in its essence to Newton's laws of motion, Maxwell's theory of electricity and magnetism, and Einstein's theory of relativity.

Learn about the most recent advances in 2D materials with this comprehensive and accessible text. Providing all the necessary materials science and physics background, leading experts discuss the fundamental properties of a wide range of 2D materials, and their potential applications in electronic, optoelectronic and photonic devices. Several important classes of materials are covered, from more established ones such as graphene, hexagonal boron nitride, and transition metal dichalcogenides, to new and emerging materials such as black phosphorus, silicene, and germanene. Readers will gain an in-depth understanding of the electronic structure and optical, thermal, mechanical, vibrational, spin and plasmonic properties of each material, as well as the different techniques that can be used for their synthesis. Presenting a unified perspective on 2D materials, this is an excellent resource for graduate students, researchers and practitioners working in nanotechnology, nanoelectronics, nanophotonics, condensed matter physics, and chemistry.

The classical mechanistic idea of nature that prevailed in science during the eighteenth and nineteenth centuries was an essentially mindless conception: the physically described aspects of nature were asserted to be completely determined by prior physically described aspects alone, with our conscious experiences entering only passively. During the twentieth century the classical concepts were found to be inadequate. In the new theory, quantum mechanics, our conscious experiences enter into the dynamics in specified ways not fixed by the physically described aspects alone. Consequences of this radical change in our understanding of the connection between mind and brain are described. This second edition contains two new chapters investigating the role of quantum phenomena in the problem of free will and in the placebo effect.

A book about a brilliant invention - the bicycle. A book about the joys of cycling, a book that peels back the myths of the cycling fraternity. A book about being a boy on a bike or a girl on a bike. A book that states that the bicycle is for everybody to enjoy not just the Carbon Fiber Cowboys and the Lycra Loonies

A fully updated edition of the classic text by acclaimed physicist A. Zee. Since it was first published, *Quantum Field Theory in a Nutshell* has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available. This expanded edition features several additional chapters, as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations for amplitudes with complex momenta,

and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendices, solutions to selected exercises, and suggestions for further reading. The most accessible and comprehensive introductory textbook available Features a fully revised, updated, and expanded text Covers the latest exciting advances in the field Includes new exercises Offers a one-of-a-kind resource for students and researchers Leading universities that have adopted this book include: Arizona State University Boston University Brandeis University Brown University California Institute of Technology Carnegie Mellon College of William & Mary Cornell Harvard University Massachusetts Institute of Technology Northwestern University Ohio State University Princeton University Purdue University - Main Campus Rensselaer Polytechnic Institute Rutgers University - New Brunswick Stanford University University of California - Berkeley University of Central Florida University of Chicago University of Michigan University of Montreal University of Notre Dame Vanderbilt University Virginia Tech University

Welcome to a world where there is no darkness. A world of awe, delight, fun, love, humour and adventure but one day darkness comes along saying dark is good because In order for the light to shine so brightly, the darkness must be present. Follow the adventure as light and dark battle it out. Will the earth ever be the same again?

A man wakes up in a hotel room in Iran with amnesia. Inside the room is a briefcase full of money, a gun, a USB flash drive and a dead guy in the en-suite. Amnesia thrillers are nothing new. The protagonist discovers he's the hero, right? Well, what if you woke up to discover you were the most evil man on the planet?! Some memories are better forgotten - An amnesiac thriller novel with twists at every turn, TABULA RASA is Richard Anthony Dunford's amazing debut novel.

"Rovelli is a genius and an amazing communicator... This is the place where science comes to life." ?Neil Gaiman "One of the warmest, most elegant and most lucid interpreters to the laity of the dazzling enigmas of his discipline...[a] momentous book" ?John Banville, The Wall Street Journal A startling new look at quantum theory, from the New York Times bestselling author of Seven Brief Lessons on Physics and The Order of Time. One of the world's most renowned theoretical physicists, Carlo Rovelli has entranced millions of readers with his singular perspective on the cosmos. In Helgoland, he examines the enduring enigma of quantum theory. The quantum world Rovelli describes is as beautiful as it is unnerving. Helgoland is a treeless island in the North Sea where the twenty-three-year-old Werner Heisenberg made the crucial breakthrough for the creation of quantum mechanics, setting off a century of scientific revolution. Full of alarming ideas (ghost waves, distant objects that seem to be magically connected, cats that appear both dead and alive), quantum physics has led to countless discoveries and technological advancements. Today our understanding of the world is based on this theory, yet it is still profoundly mysterious. As scientists and philosophers continue to fiercely debate the meaning of the theory, Rovelli argues that its most unsettling contradictions can be explained by seeing the world as fundamentally made of relationships rather than substances. We and everything around us exist only in our interactions with one another. This bold idea suggests new directions for thinking about the structure of reality and even the nature of consciousness. Rovelli makes learning about quantum mechanics an almost psychedelic experience. Shifting our perspective once again, he takes us on a riveting journey through the universe so we can better comprehend our place in it.

God is always talking to us: we cannot be separated from Him. These are only two of the meaningful revelations Tony Arnold shares with us in this remarkable book. What follows is a remarkable dialogue between Tony and God: a dialogue about the creative powers of humans, our oneness with God, Heaven on earth, and love. As God leads Tony to new knowings and better ways of living, the reader is drawn along on a meaningful journey of discovery and letting go - letting go of fear and judgment in favor of peace and wisdom. There is wisdom here

for every reader - for those who are lost and scared, for those searching for the meaning of life, and for those who simply want to be closer to God.

Publisher Description

The 100 Greatest Lies in physics is a follow-up to Ray Fleming's *The Zero-Point Universe* as he continues to explore the importance of zero-point energy to modern physics. Since before the start of this century, evidence has mounted that space is not empty. Space is filled with quantum vacuum fluctuations called zero-point energy, and this energy is a modern form of aether. Most of the physics of the past century, which led to today's standard model, fails to account for this modern aether. In relativity theory there are two types of relativity, one that includes aether and one that rejects it. Physicists choose poorly and wrongly champion the theory that rejects the modern aether. Even though many theories like this are now known to be invalid, physicists still cling to the physics of the past. The mainstream physics of the last century is a complete disaster due to physicists' failure to incorporate zero-point energy into their explanations of forces and every day phenomena. The 100 Greatest Lies in Physics catalogs many of the most outrageous mistakes in physics in hopes that physicists will do their jobs and stop lying to everyone.

Introduction to quantum physics for the general reader.

The Standard Model is renormalizable and mathematically self-consistent, however despite having huge and continued successes in providing experimental predictions it does leave some unexplained phenomena. In particular, although the Physics of Special Relativity is incorporated, general relativity is not, and The Standard Model will fail at energies or distances where the graviton is expected to emerge. Therefore in a modern field theory context, it is seen as an effective field theory. The Standard Model is a quantum field theory, meaning its fundamental objects are quantum fields which are defined at all points in space-time. These fields are: 1.) the fermion eld, which accounts for "matter particles"; 2.) the electroweak boson elds W_1 , W_2 , W_3 , and B ; 3.) the gluon eld, G ; and 4.) the Higgs eld, These are quantum rather than classical elds and that has the mathematical consequence that they are operator-valued. In particular, values of the elds generally do not commute. As operators, they act upon the quantum state (ket vector). This book explains the mathematics and logic that supports the latest models of cosmology and particle physics as they are understood in the Grand Unification Theory (G.U.T.) and discusses the efforts and hurdles that are involved in taking the next step to defining an acceptable Theory of Everything (T.O.E.)."

An engaging exploration of beauty in physics, with a foreword by Nobel Prize-winning physicist Roger Penrose The concept of symmetry has widespread manifestations and many diverse applications—from architecture to mathematics to science. Yet, as twentieth-century physics has revealed, symmetry has a special, central role in nature, one that is occasionally and enigmatically violated. *Fearful Symmetry* brings the incredible discoveries of the juxtaposition of symmetry and asymmetry in contemporary physics within everyone's grasp. A. Zee, a distinguished physicist and skillful expositor, tells the exciting story of how contemporary theoretical physicists are following Einstein in their search for the beauty and simplicity of Nature. Animated by a sense of reverence and whimsy, *Fearful Symmetry* describes the majestic sweep and accomplishments of twentieth-century physics—one of the greatest chapters in the intellectual history of humankind.

Cosmological Koans invites the reader into an intellectual adventure of the highest order. Through more than fifty Koans—pleasingly paradoxical vignettes following the ancient Zen tradition—leading physicist Anthony Aguirre takes the reader across the world from West to East, and through ideas spanning the age, breadth, and depth of the Universe. Using these beguiling Koans (Could there be a civilization on a mote of dust? How much of your fate have you made? Who cleans the universe?) and a flair for

explaining complex science, Aguirre covers cosmic questions that scientific giants from Aristotle to Galileo to Heisenberg have grappled with, from the meaning of quantum theory and the nature of time to the origin of multiple universes. A playful and enlightening book, *Cosmological Koans* explores the strange hinterland between the deep structure of the physical world and our personal experience of it, giving readers what Einstein himself called "the most beautiful and deepest experience" anyone can have: a sense of the mysterious.

Is the universe infinite, or does it have an edge beyond which there is, quite literally, nothing? Do we live in the only possible universe? Why does it have one time and three space dimensions - or does it? What is it made of? What does it mean when we hear that a new particle has been discovered? Will quantum mechanics eventually break down and give way to a totally new description of the world, one whose features we cannot even begin to imagine? This book aims to give the non-specialist reader a general overview of what physicists think they do and do not know in some representative frontier areas of contemporary physics. After sketching out the historical background, A. J. Leggett goes on to discuss the current situation and some of the open problems of cosmology, high-energy physics, and condensed-matter physics. Unlike most other accounts, this book focuses not so much on recent achievements as on the fundamental problems at the heart of the subject, and emphasizes the provisional nature of our present understanding of things.

For all of you who break out in a sweat at the thought of thermodynamics, or freeze up at the mention of quantum mechanics, like a bolt from the blue, *INSTANT PHYSICS* will zap you through the fascinating history of our most basic, yet baffling, science. From the thousand-year search for proof of the existence of the ever-elusive atom to the varied and heated arguments behind the big bang theory, *INSTANT PHYSICS* answers all the heavy questions with a light touch. You'll learn: * How the Greek philosophers used the sledgehammer of mathematics to break apart the mysteries of the physical universe. * Why gravity is a "romantic" force. * How to tell the difference between a gluon, a meson, and a quark, even if you can't see them. *INSTANT PHYSICS* is crammed with special features, including chapter summaries, who's who lists, biographical and historical tidbits, and a host of illustrations, photos, equations, diagrams, and drawings.

Written by a Twice Exceptional (Gifted & Dyslexic) 8 year old, this book is NOT a children's book, but is intended for high school, college or adults wanting an approachable overview to Quantum Physics.

Computers now impact almost every aspect of our lives, from our social interactions to the safety and performance of our cars. How did this happen in such a short time? And this is just the beginning. In this book, Tony Hey and Gyuri Pápay lead us on a journey from the early days of computers in the 1930s to the cutting-edge research of the present day that will shape computing in the coming decades. Along the way, they explain the ideas behind hardware, software, algorithms, Moore's Law, the birth of the personal computer, the Internet and the Web, the Turing Test, Jeopardy's Watson, World of Warcraft, spyware, Google, Facebook and quantum computing. This book also introduces the fascinating cast of dreamers and inventors who brought these great technological developments into every corner of the modern world. This exciting and accessible introduction will open up the universe of computing to anyone who has ever

wondered where his or her smartphone came from.

This exciting and accessible book takes us on a journey from the early days of computers to the cutting-edge research of the present day that will shape computing in the coming decades. It introduces a fascinating cast of dreamers and inventors who brought these great technological developments into every corner of the modern world, and will open up the universe of computing to anyone who has ever wondered where his or her smartphone came from.

Following the success of *The Quantum Universe*, first published in 1987, a host of exciting new discoveries have been made in the field of quantum mechanics. *The New Quantum Universe* provides an up-to-date and accessible introduction to the essential ideas of quantum physics, and demonstrates how it affects our everyday life. Quantum mechanics gives an understanding of not only atoms and nuclei, but also all the elements and even the stars. The book explains quantum paradoxes and the eventful life of Schrodinger's Cat, along with the Einstein-Podolsky-Rosen paradox and Bell's Inequality. It then looks ahead to the nanotechnology revolution, describing quantum cryptography, quantum computing and quantum teleportation, and ends with an account of quantum mechanics and science fiction. Using simple non-mathematical language, this book is suitable for final-year school students, science undergraduates, and anyone wishing to appreciate how physics allows the new technologies that are changing our lives.

Shayla had no idea her life would turn out like it did. She had two kids, independent, a college degree, owns a Top Business Consulting firm in Buckhead, Atlanta and a Non-profit organization for the community, but in the midst of it all she was Trapped.

Trapped in love, hate, lust and PAIN!! She had a natural body that these women would die for, her personality made her beautiful, her presence was unreal and she had a smile that would lighten up your darkest days. Shayla wasn't your average chick she was street and book smart, but had one problem men was her weakness. She picked the men she had the weakness for. Shayla was living a triple life and the walls were starting to close in on her fast.. Shayla was focused on her businesses, but on the flip side enjoyed herself, She never meant to hurt anyone feelings, so she tried to be as upfront as possible when they would ask, which was never so, she never offered the information. She is about to go for the ride of her life, she's a street girl by nature, maybe she can get herself out it. Her best friend Kisha is by her side to support her until Shayla finds out her secret. Shayla is into deep.....

[Note: The most complete version of the big picture that eluded Einstein in his attempts to unveil a unified field theory can be found in the book, *The Gravity Cycle*, by the same author as this book. This book, *Einstein Was Wrong!*, was one of many approaches to the ideas that will shake the very foundations of physical science upon which we presently stand.] Modern Physics is built on an erroneous foundation. If we are to take physics to a new level where gravity can be explained from an atomic/quantum perspective, then someone must boldly say, "Einstein was wrong, but so was Newton." Because they both started with the same wrong premise, their theories of gravity were destined to fall short in any attempt to connect them to atomic/quantum processes. And the same false premise that stifled Einstein in his ability to connect "the movement of planets and stars with the tiniest subatomic particles" prevents modern physicists from explaining the fourth and final force from an atomic/quantum perspective. Alas, "...when one starts with a wrong premise, no amount of patching can right the problem." But all is not lost. By correcting Newton's mistake (the wrong premise), a new

foundation for understanding the role of the atom in the momentum, relativity, and gravity of masses emerges in the form of two new theories: The Atomic Model of Motion (AMM) and The Galaxy Gravity Cycle (GGC). These two theories combine to paint the big picture of how atomic/quantum processes are involved in holding a galaxy together, keeping planets orbiting stars, and preventing people from floating off into space. This book is dedicated to Occam's razor.

#1 NEW YORK TIMES BESTSELLER When and how did the universe begin? Why are we here? What is the nature of reality? Is the apparent “grand design” of our universe evidence of a benevolent creator who set things in motion—or does science offer another explanation? In this startling and lavishly illustrated book, Stephen Hawking and Leonard Mlodinow present the most recent scientific thinking about these and other abiding mysteries of the universe, in nontechnical language marked by brilliance and simplicity. According to quantum theory, the cosmos does not have just a single existence or history. The authors explain that we ourselves are the product of quantum fluctuations in the early universe, and show how quantum theory predicts the “multiverse”—the idea that ours is just one of many universes that appeared spontaneously out of nothing, each with different laws of nature. They conclude with a riveting assessment of M-theory, an explanation of the laws governing our universe that is currently the only viable candidate for a “theory of everything”: the unified theory that Einstein was looking for, which, if confirmed, would represent the ultimate triumph of human reason.

The New Quantum Universe Cambridge University Press

A Thorough Update of One of the Most Highly Regarded Textbooks on Quantum Mechanics Continuing to offer an exceptionally clear, up-to-date treatment of the subject, Quantum Mechanics, Sixth Edition explains the concepts of quantum mechanics for undergraduate students in physics and related disciplines and provides the foundation necessary for other specialized courses. This sixth edition builds on its highly praised predecessors to make the text even more accessible to a wider audience. It is now divided into five parts that separately cover broad topics suitable for any general course on quantum mechanics. New to the Sixth Edition Three chapters that review prerequisite physics and mathematics, laying out the notation, formalism, and physical basis necessary for the rest of the book Short descriptions of numerous applications relevant to the physics discussed, giving students a brief look at what quantum mechanics has made possible industrially and scientifically Additional end-of-chapter problems with different ranges of difficulty This exemplary text shows students how cutting-edge theoretical topics are applied to a variety of areas, from elementary atomic physics and mathematics to angular momentum and time dependence to relativity and quantum computing. Many examples and exercises illustrate the principles and test students' understanding.

Charlie was a ghost hunter who didn't really believe in ghosts, but he believed in the effect being a ghost hunter had on girls. He thought he had perfected the ultimate pick up line, “I'm a ghost hunter.” All that came crashing down when he met his soul mate...a ghost. One night while photographing an old Victorian mansion, he was startled to meet the ghost of Anne Meux. She died in 1970 at age 85. She was now only 25 and beautiful. Charlie was soon engulfed in a riveting conversation. Who was she? Where was she? What was she doing in her old room? At the end of a long conversation she suddenly had to go. He had a question for himself. Why was he madly in love with an apparition or worse a hallucination? If she was in a parallel universe could he bring her back to this universe? He had an overwhelming desire to get some questions answered. He needed his best friend Stanley, the smartest guy he knew. Stanley was working on his PHD in Physics so surely he could figure this out. Stanley was intrigued and agreed to help his best friend. As a physicist, Stanley was well aware of parallel universes and the duality of the universe. There is always two of anything that can exist. Stanley was convinced that science and religion were two sides of the same coin. The dogma in both seemed to prevent the ultimate discovery of 'truth'. He enjoyed asking the curious.

"Since 'space' was created by the Big Bang...what did it go bang in? And, If God created it all by saying 'Let there be light,' who was he talking to? Then the ultimate question, what was there just before the bang or God's command?The same answer."

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