

In Search Of Schrodinger S Cat Quantum Physics And Reality

John Gribbin John Gribbin John Gribbin John R. Gribbin Frank Northen Magill Jagdish Mehra Jagdish Mehra William Taussig Scott

quantum theory is so shocking that einstein could not bring himself to accept it it is so important that it provides the fundamental underpinning of all modern sciences without it we'd have no nuclear power or nuclear weapons no tv no computers no science of molecular biology no understanding of dna no genetic engineering in search of schrodinger's cat tells the complete story of quantum mechanics a truth stranger than any fiction john gribbin takes us step by step into an ever more bizarre and fascinating place requiring only that we approach it with an open mind he introduces the scientists who developed quantum theory he investigates the atom radiation time travel the birth of the universe superconductors and life itself and in a world full of its own delights mysteries and surprises he searches for schrodinger's cat a search for quantum reality as he brings every reader to a clear understanding of the most important area of scientific study today quantum physics in search of schrodinger's cat is a fascinating and delightful introduction to the strange world of the quantum an essential element in understanding today's world

a primer for the magical near inexplicable world of quantum mechanics mind blowing data \square brain quantum theory is so shocking that einstein could not bring himself to accept it it is so important that it underpins all modern sciences without it we'd have no molecular biology no understanding of dna no genetic engineering no computers a century after the development of quantum mechanics in search of schrodinger's cat tells the full story of how scientists reckoned with a truth stranger than any fiction john gribbin leads us into the ever more bizarre and fascinating world of the smallest particles we have discovered requiring only that we approach it with an open mind he introduces the scientists who developed quantum theory he investigates the atom radiation time travel the birth of the universe superconductors and life itself and in a world full of its own delights mysteries and surprises he searches for schrodinger's cat a search for quantum reality as he brings every reader to a clear understanding of the

most important area of scientific study today quantum physics featuring a new preface to mark the centenary of the field this bestselling classic remains a fascinating and delightful introduction to the strange world of the quantum an essential element in understanding the modern world john gribbin is unsurpassed in his ability to convey scientific ideas in lively and accessible language this new edition of his classic book deserves wide readership it's specially welcome in the year that marks the centenary of quantum theory which revolutionised our concept of nature and underpins most of modern technology professor martin rees astronomer royal

an astrophysicist offers an introduction to the theoretical principles practical applications and far reaching implications of quantum physics and quantum mechanics

accessible exploration of one of the most exciting areas of scientific inquiry the nature of light following on from his bestseller schrodinger's cat john gribbin presents the recent dramatic improvements in experimental techniques that have enabled physicists to formulate and test new theories about the nature of light he describes these theories not in terms of hard to imagine entities like spinning subnuclear particles but in terms of the fate of two small cats separated at a tender age and carried to opposite ends of the universe in this way gribbin introduces the reader to such new developments as quantum cryptography through which unbreakable codes can be made and goes on to possible future developments such as the idea that the entanglement of quantum particles could be a way to build a star trek style teleportation machine

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erwin schrödinger was an austrian physicist famous for his contribution to quantum physics he won the nobel prize in 1933 and is best known for his thought experiment of a cat in a box both alive and dead at the same time which revealed the seemingly paradoxical nature of quantum mechanics schrödinger was working at one of the most fertile and creative moments in the whole history of science by the time he started university in 1906 einstein had already published his revolutionary papers on relativity now the baton of scientific progress was being passed to a new generation werner heisenberg paul dirac niels bohr and of course schrödinger himself in this riveting biography john gribbin takes us into the heart of the quantum revolution he tells the story of schrödinger s surprisingly colourful life he arrived for a position at oxford university with both his wife and mistress and with his trademark accessible style and popular touch he explains the fascinating world of quantum mechanics which underpins all of modern science

reveals recent developments in quantum theory and explains the fundamental riddle of quantum mechanics why a single photon can be seen going in two directions at once

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quantum theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it the historical development of quantum theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning drawing upon such materials as the resources of the archives for the history of quantum physics the niels bohr archives and the archives and scientific correspondence of the principal quantum physicists as well as jagdish mehra s personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context this multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process the historical development of quantum theory is science history and biography all wrapped in the story of a great human enterprise its lessons will be an aid to those working in the sciences and humanities alike

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