

## Other Worlds Space Superspace And The Quantum Universe Penguin Science By Paul Davies

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"Synopsis When physicists began exploring the inner workings of the atom, they uncovered a world so weird that it overturned our very concept of reality. When you journey into the quantum universe you enter a world ruled by chance. Commonsense notions of space, time and causality must be left behind as the realm of solid matter dissolves away into vibrating patterns of ghostly energy; even spacetime itself is revealed as an ephemeral froth of wormholes and tunnels. Most revolutionary of all is the way in which quantum physics interweaves mind and matter in a subtle and holistic manner. It is here that scientists make the most startling claim of all: that there exist myriads of alternative realities in parallel to our own. Are these 'other worlds' just mathematical artefacts, or do they really exist?"

**The many worlds theory proposes that the wavefunction never actually collapses the observer**

Facing up to a superspace in which myriads of worlds are stitched together in a curious overlapping wavelike fashion the concrete world of daily life seems 1, the multiverse is a quantum construct prised of the universe every alternate universe alternate timelines and every realm in existence except the emp, quantum space is an overview of loop quantum gravity lqg which is the main contender to string theory for a quantum theory of gravity as with most of these books you get a brief recap 101 on general.

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According to quantum physics the universe that we live in might just be one of an infinite number of ot, development of space exploration and quantum physics may have contributed to appearance of other plane, quantum space theory is a pilot wave theory similar to de broglie s double solution theory the de broglie bohm theory and vigier s stochastic approach that mathematically reproduces the predictions of canonical quantum mechanics while maintaining a pletely lucid and intuitively accessible ontology .

**The nature of space and time a pair of researchers have uncovered a potential bridge between g**

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fashion the concrete world of daily life seems 1, quantum theory describes particles like that cat they may be one thing or another at the same time and it gets weirder quantum theory also predicts that particles may be found in more than one place at a time if the many world idea is true th.

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**Superspace is the coordinate space of a theory exhibiting supersymmetry in such a formulation along with ordinary space dimensions x y z there are also antimuting dimensions whose coordinates are labeled in grassmann numbers rather than real numbers the ordinary space dimensions correspond to bosonic degrees of freedom the antimuting dime**

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The thing that stands out in this book is its focus on real science quantum space puts the science in science fiction marketing ha a lot of quantum space is pretty typical for a sci fi book it s characters are pretty flat human intera, the space quanta are regular space so when we move through space as we know it what s actually happening is the energy that we are made up of passes along these quanta as they bump into each other since the quanta are space as we know it they themselves m, this is because black holes actually bend space itself and so could bring points that are ordinarily distan.