

Life on the Edge: The Coming of Age of Quantum Biology

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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book. (Ms. Ora Buckridge)

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LIFE ON THE EDGE: THE COMING OF AGE OF QUANTUM BIOLOGY



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Transworld Publishers Ltd, United Kingdom, 2014. Paperback. Book Condition: New. 238 x 154 mm. Language: English . Brand New Book. Life is the most extraordinary phenomenon in the known universe; but how does it work? Even in this age of cloning and synthetic biology, the remarkable truth remains: nobody has ever made anything living entirely out of dead material. Life remains the only way to make life. Are we missing a vital ingredient in its creation? Like Richard Dawkins The Selfish Gene, which provided a new perspective on how evolution works, Life on the Edge alters our understanding of life s dynamics. Bringing together first-hand experience of science at the cutting edge with unparalleled gifts of exposition and explanation, Jim Al-Khalili and Johnjoe Macfadden reveal the hitherto missing ingredient to be quantum mechanics and the strange phenomena that lie at the heart of this most mysterious of sciences. Drawing on recent ground-breaking experiments around the world, they show how photosynthesis relies on subatomic particles existing in many places at once, while inside enzymes, those workhorses of life that make every molecule within our cells, particles vanish from one point in space and instantly materialize in another. Each chapter in Life on the Edge opens with an engaging example that illustrates one of life s puzzles - How do migrating birds know where to go? How do we really smell the scent of a rose? How do our genes manage to copy themselves with such precision? and then reveals how quantum mechanics delivers its answer. Guiding the reader through the maze of rapidly unfolding discovery, Al-Khalili and McFadden communicate vividly the excitement of this explosive new field of quantum biology, with its potentially revolutionary applications, and also offer insights into the biggest puzzle of all: what is life? As they brilliantly...

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