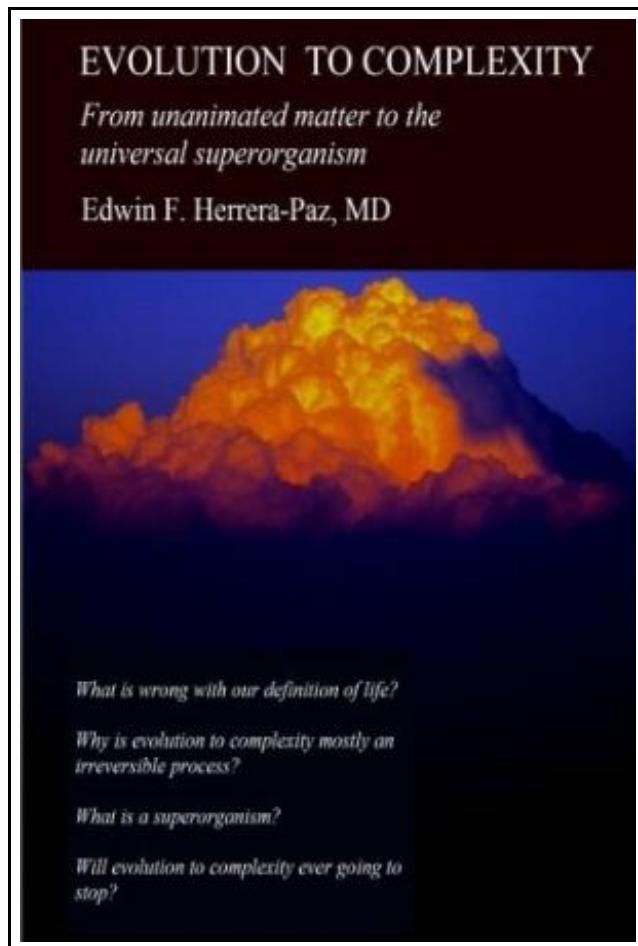


Evolution to Complexity: From Unanimated Matter to the Universal Superorganism



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Reviews

Complete guideline! Its such a excellent read. This really is for all who statte there had not been a worth studying. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Timothy Lynch)

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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.It is undeniable that there is a tendency in living organisms to evolve from lower to higher states of complexity. Thus, complex life evolved from self-replicating molecules to sophisticated cellular mechanisms to multicellular organisms and populations of organisms, and this trend to more complex forms does not seem to stop. Although the theory of Darwinian evolution explains how organisms adapt to their environment, fails when trying to explain why complexity is always raising. All levels of complexity coexist in our planet, so, it is naive to affirm that more complex forms of life are better adapted than simpler ones. Therefore, natural selection cannot explain evolution towards complexity. This book aims to weave a new theory in which Darwinian evolution remains important, but the evolution towards complexity is guided above all by the evolutionary innovations that individual elements to communicate in better ways. Thus, the emergence of the eukaryotic cell was possible due to an endosymbiotic event between two bacteria; the multicellular organism was possible due to innovations in chemical and electrical communication between cells; communities and individuals are possible due to the development of forms of communication such as language, coupled with technologies that increase the range within relations can be established among individuals. The book argues that, contrary to the old view that life needs high doses of negative entropy and therefore is an unlikely phenomenon in the universe, the evolution of the complexity is associated with high entropy because elements undergo a process of simplification once those elements come into a cooperative relationship. That simplification with consequent increment in entropy is what gives the character of irreversible to evolution toward complexity. In the energetics sense, evolution...



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