

Investigations

Stuart A. Kauffman



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In the tradition of Schrödinger's classic *What Is Life?*, this book is a tour-de-force investigation of the basis of life itself, with conclusions that radically undermine the scientific approaches on which modern science rests-the approaches of Newton, Boltzman, Bohr, and Einstein.

Kauffman's *At Home in the Universe*, which *The New York Times Book Review* called "passionately written" and *nature* named "courageous," introduced pivotal ideas about order and evolution in complex life systems. In *investigations*, Kauffman builds on these theories and finds that classical science does not take into account that physical systems--such as people in a biosphere--effect their dynamic environments in addition to being affected by them. These systems act on their own behalf as autonomous agents, but what defines them as such? In other words, what is life? By defining and explaining autonomous agents and work in the contexts of thermodynamics and of information theory, Kauffman supplies a novel answer to this age-old question that goes beyond traditional scientific thinking.

Much of *Investigations* unpacks the progressively surprising implications of his definition. Kauffman lays out a foundation for a new concept of organization, and explores the requirements for the emergence of a general biology that will transcend terrestrial biology to seek laws governing biospheres anywhere in the cosmos. Moreover, he presents four candidate laws to explain how autonomous agents co-create their biosphere and the startling idea of a "co-creating" cosmos.

A showcase of Kauffman's most fundamental and significant ideas, *Investigations* presents a new way of thinking about the basics of general biology that will change the way we understand life itself--on this planet and anywhere else in the cosmos.

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