

Beyond Chaos: The Underlying Theory Behind Life, the Universe, and Everything

Mark Daniel Ward

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Beyond Chaos: The Underlying Theory Behind Life, the Universe, and Everything Mark Daniel Ward We are surrounded by order that-until now-physics has been unable to explain.

The spread of veins in the back of our hands mirrors the spread of branches on a tree; fern fronds bear a resemblance to the outline of fjords; the best-loved classical music echoes the patterns of our heartbeats.

The theory of Universality is using fractal patterns to explain much of the world around us. Could it be that the same laws that govern systems in their critical states also govern some of the most unpredictable events such as earthquakes, avalanches, the growth of cities and stock market crashes-even the way businesses are run and the way fashions come and go? Is there a common principle, a universal affinity that binds us to the forces of nature?

A consensus is emerging on how complex structures grow and sustain themselves; phenomena that were once thought to be unique now appear to have a great deal in common. Mark Ward examines these theories, explores how they fit into an age-long quest to discover how the universe works, delves into their possible limitations and asks what we can do with this new knowledge.

While identifying patterns does not mean that we can always predict what will happen next, some of the trends scientists are noticing prove that life is not a series of random events. Universality deepens our understanding of natural phenomena and our place in the physical world.

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Brittany Schafer:

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