



Complexity: A Very Short Introduction (Very Short Introductions)

By John H. Holland

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The importance of complexity is well-captured by Hawking's comment: "Complexity is the science of the 21st century". From the movement of flocks of birds to the Internet, environmental sustainability, and market regulation, the study and understanding of complex non-linear systems has become highly influential over the last 30 years.

In this *Very Short Introduction*, one of the leading figures in the field, John Holland, introduces the key elements and conceptual framework of complexity. From complex physical systems such as fluid flow and the difficulties of predicting weather, to complex adaptive systems such as the highly diverse and interdependent ecosystems of rainforests, he combines simple, well-known examples -- Adam Smith's pin factory, Darwin's comet orchid, and Simon's 'watchmaker' -- with an account of the approaches, involving agents and urn models, taken by complexity theory.

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Editorial Review

About the Author

John H. Holland is a leading figure in the field of complexity science who pioneered genetic algorithms. He is Professor of Psychology and Professor of Electrical Engineering and Computer Science at The University of Michigan, and a member of the Board of Trustees and Science Board of the Santa Fe Institute. He is also the author of *Emergence* (OUP, 1999).

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