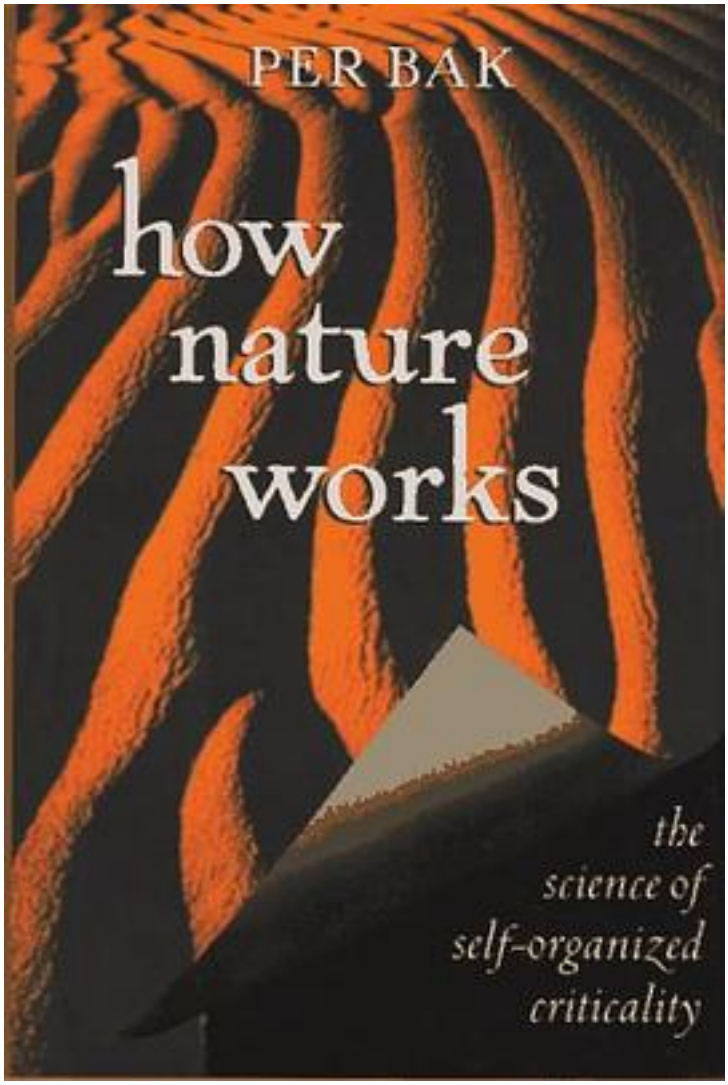
How Nature Works



How Nature Works_下载链接1_

著者:Per Bak

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装帧:Hardcover

isbn:9780387947914

This is a science book, intended for the general reader who is interested in science. The author is a physicist who is well-known for his development of the property called "self-organized Criticality", a property or phenomenon that lies at the heart of large dynamical systems. It can be used to analyse systems that are complicated, and which are part of the new science of complexity. It is a unifying concept that can be used to study phenomena in fields as diverse as economics, astronomy, the earth sciences, and physics. The author discusses his discovery of self-organized criticality; its relation to the world of classical physics; computer simulations and experiments which aid scientist's understanding of the property; and the relation of the subject to popular areas such as fractal geometry and power laws; cellular automata, and a wide range of practical applications. The book is readable without a science background--below the level of Scientific American.

作者介绍:

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标签

科普

self-organized

科学

system

Complexity

，nature

dynamical

MathematicalBiology

评论

:无

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not a good introductory book for SOC beginner, simple (full of examples) and simple (lack of basic elaboration)

又是一本老书噢，看看二十年前的光景

深入浅出

Highly recommended. Aligned with Marxist Philosophy. World can only be understood from this holistic view rather than reductionist.

看看

一本很好的关于自组织现象的书，其中的沙堆模型我大三也做过

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书评

黠之大者
任何一个学科都需要从其它学科学习其精髓，对于在走向可计算化道路的社会科学，尤其是传播学而言，这种开放性更是时代的压力和必然的结果。因为网络时代的到来所带了的传播关系的变革、数字化的行为印记（digital traces or digital footprint）、大规模的网络数据...

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