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ubiquity, it is a law of nature. The  
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The discovery of the self-organized  
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physics in the last couple of decades.

Self-organized criticality is a very rich phenomenon as it combines self-organization and criticality to describe complexity. This concept was first introduced by P. Bak and the collabora-

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Bak, Tang, and Wiesenfeld (1987) to describe the statistics of avalanches on the surface of a sandpile with a critical slope, which produces a scale-free powerlaw size distribution of avalanches.

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introduces the concept of SOC and shows that, due to its universality and ubiquity, it is a law of nature. The theoretical framework and specific physical models are described, together with a range of applications in various aspects of astrophysics.

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Markus J. Aschwanden is a Solar  
Physicist at the Solar and Astrophysics  
Laboratory of the Lockheed Martin,  
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Alto, CA. He has authored many books in  
Solar Physics, the most recent is the Self-  
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evolve into a critical state, with no  
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The concept of "self-organized  
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Tang, Wiesenfeld(BTW) as an

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explanation for the behaviour of a cellular-automata 3 model (sandpile model) they developed. By definition, SOC is a property of (classes of) dynamical systems that have a critical point as an attractor.

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Self-organized criticality (SOC) maintains that complex behavior can develop spontaneously in certain multi-body systems whose dynamics vary abruptly. This is a clear and concise introduction to the field of self-organized criticality, and contains an overview of the main research results.

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