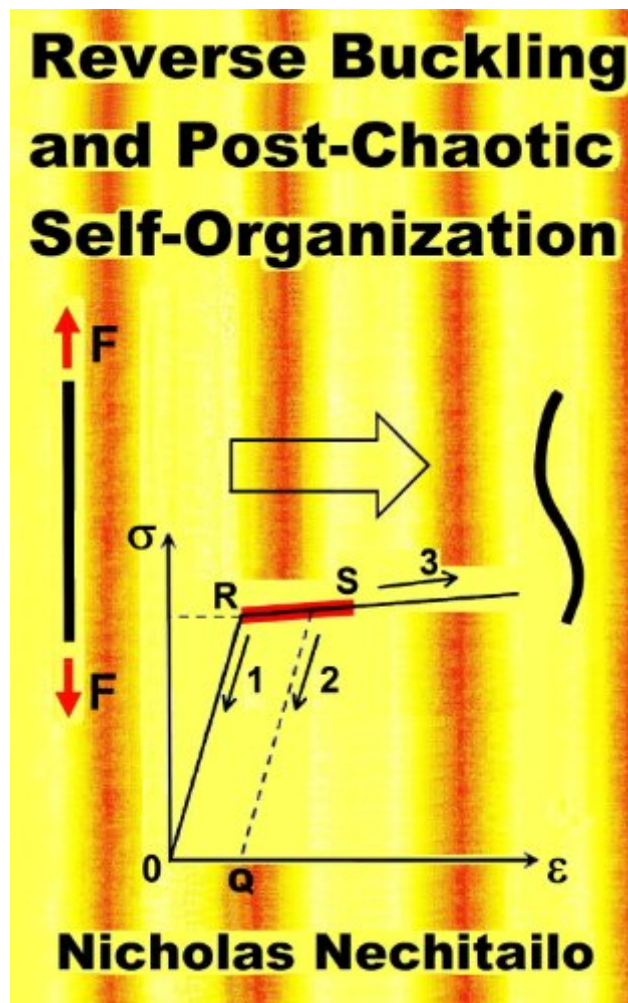


The book was found

Reverse Buckling And Post-chaotic Self-organization



Synopsis

Thirty years ago, in 1983, a new physical phenomenon in the field of mechanics was discovered and explained by the author of this book. It was found that impulsive loads of certain durations and amplitudes induce unusual deformation behavior of metal plates leading to unpredictable final shapes. In subsequent publications, this behavior is called anomalous, paradoxical and counterintuitive. Commonly used mathematical models could not reliably predict motion of “simple” beams, plates and shells, in part due to the resonant and chaotic nature of their responses. Engineering manuals do not contain any information about this phenomenon and it remains little known to the interdisciplinary research community. The discovery of this phenomenon may have far-reaching implications in various nonlinear systems modeled by similar equations and analyzed by using the same numerical methods. Increased understanding and awareness of this phenomenon may help to improve predictive modeling and lead to significant breakthroughs in various areas of science including meteorology, geophysics, biology and economics. The goal of this book is to summarize the most influential findings related to this phenomenon and advance its understanding. This publication contains unique experimental results, a detailed description of the phenomenon and the conditions for its occurrence, as well as an explanation of the underlying physics and mathematical challenges. In addition, this book describes the concept of post-chaotic self-organization in nonlinear systems. The concept is illustrated by using elastic-plastic plates and beams. Observed results suggest “some predictability” for their final states based on their internal characteristics, eigenvalues and natural deformation modes.

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