

**ANNICK LESNE**

# **Méthodes de renormalisation**

**Phénomènes critiques  
Chaos  
Structures fractales**



Préface de Pierre Collet

**E**YROLLES  
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# Methodes De Renormalisation Phanomanes Critiques Chaos Structures Fractales

**Annick Lesne**



## **Mathodes De Renormalisation Phanomanes Critiques Chaos Structures Fractales:**

**Méthodes de renormalisation** Annick Lesne, 1996      **Renormalization Methods Critical Phenomena, Chaos, Fractal Structures** A. Lesne,      **Chaos, Noise and Fractals** E. Roy Pike, L. A. Lugiato, 2020-08-26

The study of nonlinear dynamical systems has been gathering momentum since the late 1950s. It now constitutes one of the major research areas of modern theoretical physics. The twin themes of fractals and chaos, which are linked by attracting sets in chaotic systems that are fractal in structure, are currently generating a great deal of excitement. The degree of structure robustness in the presence of stochastic and quantum noise is thus a topic of interest. *Chaos, Noise and Fractals* discusses the role of fractals in quantum mechanics, the influence of phase noise in chaos and driven optical systems, and the arithmetic of chaos. The book represents a balanced overview of the field and is a worthy addition to the reading lists of researchers and students interested in any of the varied and sometimes bizarre aspects of this intriguing subject.

*Fractals and Chaos* A.J. Crilly, Rae Earnshaw, Huw Jones, 2011-09-17

This volume is based upon the presentations made at an international conference in London on the subject of Fractals and Chaos. The objective of the conference was to bring together some of the leading practitioners and exponents in the overlapping fields of fractal geometry and chaos theory with a view to exploring some of the relationships between the two domains. Based on this initial conference and subsequent exchanges between the editors and the authors, revised and updated papers were produced. These papers are contained in the present volume. We thank all those who contributed to this effort by way of planning and organisation, and also all those who helped in the production of this volume. In particular, we wish to express our appreciation to Gerhard Rossbach, Computer Science Editor, Craig Van Dyck, Production Director, and Nancy A. Rogers, who did the typesetting.

A. J. Crilly, R. A. Earnshaw, H. Jones, 1 March 1990

**Introduction**

**Fractals and Chaos**

The word fractal was coined by Benoit Mandelbrot in the late 1970s, but objects now defined as fractal in form have been known to artists and mathematicians for centuries. Mandelbrot's definition, a set whose Hausdorff dimension is not an integer, is clear in mathematical terms. In addition, related concepts are those of self-similarity and sub-divisibility. A fractal object is self-similar in that subsections of the object are similar in some sense to the whole object.

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