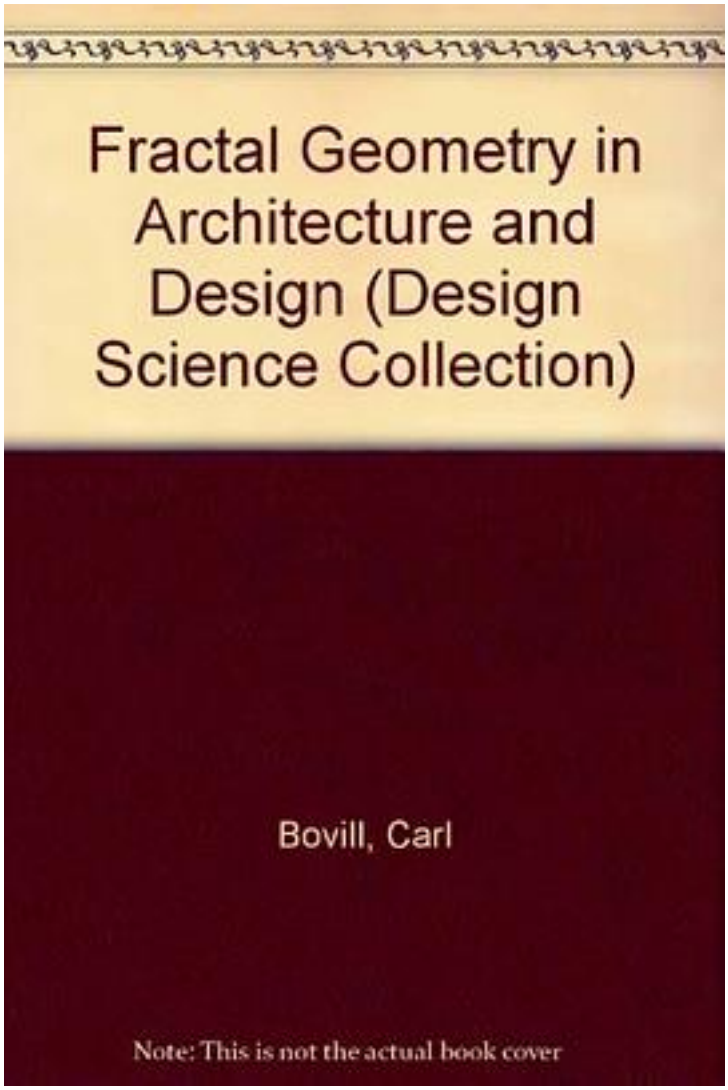
# Fractal Geometry in Architecture and Design

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Fractal geometry is the formal study of mathematical shapes that display a progression of never-ending, self-similar, meandering detail from large to small scales. It has the descriptive power to capture, explain, and enhance one's appreciation of and control over complex diversity. Natural shapes and rhythms, such as leaves, tree branching, mountain ridges, flood levels of a river, wave patterns, and nerve impulses, display this cascading behaviour. These fractal concepts are found in many fields, from physics to musical composition.

Architecture and design, concerned with control over rhythm, and with such fractal concepts as the progression of forms from a distant view down to the intimate details, can benefit from the use of this relatively new mathematical tool. Fractal geometry is a rare example of a technology that reaches into the core of design composition, allowing the architect or designer to express a complex understanding of nature.

The exposition of the book is at a level suitable for applied scientists, architects, and students with a modest background in mathematics. It is well illustrated and has numerous examples from which to learn the underlying concepts and their applications. Thus the book is addressed to a wide audience with a multiplicity of interests in new compositional ideas.

作者介绍:

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## 标签

建筑

分形

建筑设计

分形几何

parametric

英文原版

urban

## 评论

fractal rhythm, 分析和设计的新思路.

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the fractal characteristic of an architecture composition presents itself in this progression of interesting detail as one opproaches,enters,and use a building. the fractal geometry provides a clear method of understanding and discribe the structure.

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## 书评

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