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Science News 5/4/91

THE FRACTAL GEOMETRY OF NATURE
by Benoit Mandelbrot
The creator of fractal geometry offers a fascinating, mathematically precise means to measure all those shapes that Euclidean geometry can only approximate. When fractal geometry was first conceived and developed by Benoit Mandelbrot, it opened many eyes to the real geometry of Nature and how to study it. This classic is the core book on which any fractal geometry library should be built.
468 pages. Publisher's price: \$37.95

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FRACTALS EVERYWHERE
by Michael Barnsley
Renowned teacher and fractal theoretician Barnsley begins with a natural object, then finds a specific fractal to fit it. Through his step-by-step methods you'll learn to write exact formulas for fractals, compute iterated function systems, and produce fractal images far superior to elementary functions presently used in computer graphics. Hundreds of exercises are presented with worked proofs, theorems and illustrations that explain every concept.
394 pages. Publisher's price: \$39.95

CHAOS AND FRACTALS
The Mathematics Behind the Computer Graphics
Edited by Robert L. Devaney and Linda Keen
This volume contains the proceedings of the American Mathematical Society's recent workshop on Chaos and Fractals—one of the most heavily attended in the society's entire history. Covers the invaluable, state-of-the-art details on the math needed to produce new fractal images. Contributors include eight leading authorities in fractal mathematics.
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