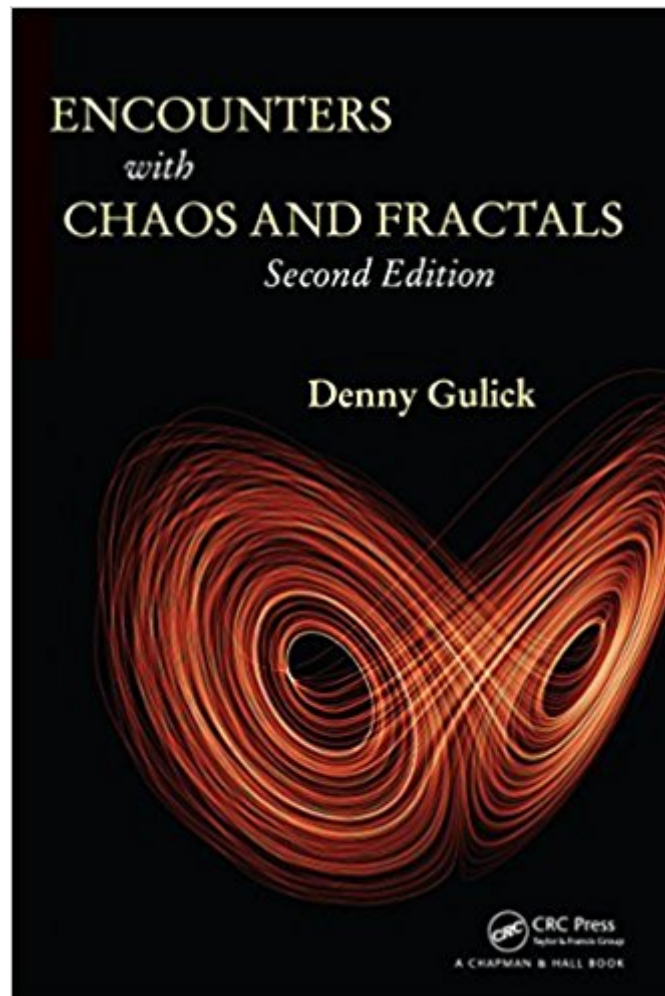




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Encounters With Chaos And Fractals, Second Edition



Synopsis

Now with an extensive introduction to fractal geometry Revised and updated, Encounters with Chaos and Fractals, Second Edition provides an accessible introduction to chaotic dynamics and fractal geometry for readers with a calculus background. It incorporates important mathematical concepts associated with these areas and backs up the definitions and results with motivation, examples, and applications. Laying the groundwork for later chapters, the text begins with examples of mathematical behavior exhibited by chaotic systems, first in one dimension and then in two and three dimensions. Focusing on fractal geometry, the author goes on to introduce famous infinitely complicated fractals. He analyzes them and explains how to obtain computer renditions of them. The book concludes with the famous Julia sets and the Mandelbrot set. With more than enough material for a one-semester course, this book gives readers an appreciation of the beauty and diversity of applications of chaotic dynamics and fractal geometry. It shows how these subjects continue to grow within mathematics and in many other disciplines.

Book Information

File Size: 21311 KB

Print Length: 387 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Chapman and Hall/CRC; 2 edition (April 26, 2012)

Publication Date: April 26, 2012

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B007XVLBDY

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #480,544 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #35

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