



CRC Standard Curves and Surfaces with Mathematica, Third Edition (Advances in Applied Mathematics)

David H. von Seggern

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Since the publication of this book's bestselling predecessor, Mathematica® has matured considerably and the computing power of desktop computers has increased greatly. The Mathematica® typesetting functionality has also become sufficiently robust that the final copy for this edition could be transformed directly from Mathematica R notebooks to LaTeX input.

Incorporating these aspects, **CRC Standard Curves and Surfaces with Mathematica®, Third Edition** is a virtual encyclopedia of curves and functions that depicts nearly all of the standard mathematical functions and geometrical figures in use today. The overall format of the book is largely unchanged from the previous edition, with function definitions and their illustrations presented closely together.

New to the Third Edition:

- A new chapter on Laplace transforms
- New curves and surfaces in almost every chapter
- Several chapters that have been reorganized
- Better graphical representations for curves and surfaces throughout
- A CD-ROM, including the entire book in a set of interactive CDF (Computable Document Format) files

The book presents a comprehensive collection of nearly 1,000 illustrations of curves and surfaces often used or encountered in mathematics, graphics design, science, and engineering fields. One significant change with this edition is that, instead of presenting a range of realizations for most functions, this edition presents only one curve associated with each function.

The graphic output of the Manipulate function is shown exactly as rendered in Mathematica, with the exact parameters of the curve's equation shown as part of the graphic display. This enables readers to gauge what a reasonable range of parameters might be while seeing the result of one particular choice of parameters.

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