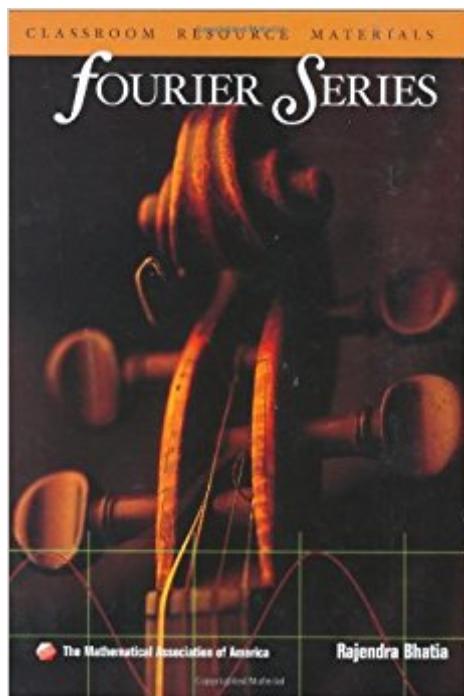


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# Fourier Series (Mathematical Association Of America Textbooks)



## Synopsis

This is a concise introduction to Fourier series covering history, major themes, theorems, examples, and applications. It can be used for self study, or to supplement undergraduate courses on mathematical analysis. Beginning with a brief summary of the rich history of the subject over three centuries, the reader will appreciate how a mathematical theory develops in stages from a practical problem (such as conduction of heat) to an abstract theory dealing with concepts such as sets, functions, infinity, and convergence. The abstract theory then provides unforeseen applications in diverse areas. Exercises of varying difficulty are included throughout to test understanding. A broad range of applications are also covered, and directions for further reading and research are provided, along with a chapter that provides material at a more advanced level suitable for graduate students.

## Book Information

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A pleasure to read. I will use this book as a supplemental text in my PDE courses. -- Roger Thelwell, SIAM Review  
A very readable introduction to Fourier Series suitable for scientists and engineers. -- Kenneth A. Ross, University of Oregon, Eugene

This is a concise introduction to Fourier series covering history, major themes, theorems, examples, and applications. It can be used for self study, and to supplement, enhance, and embellish undergraduate courses on mathematical analysis. Exercises of varying levels of difficulty are scattered throughout the book to test understanding.

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