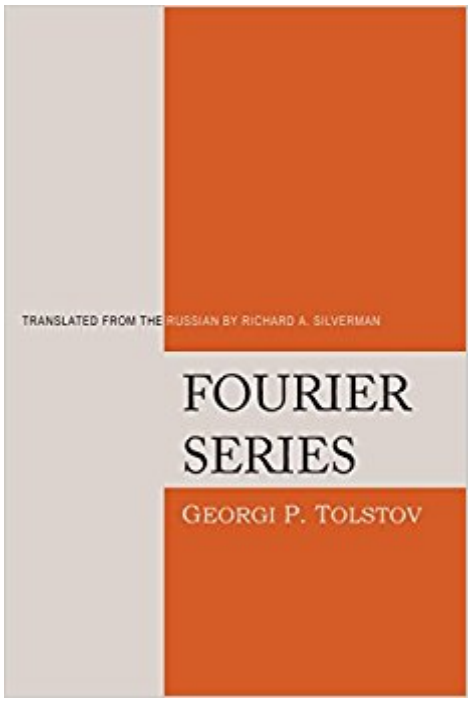
Fourier Series



Synopsis

2014 Reprint of 1962 Edition. Full facsimile of the original edition. Not reproduced with Optical Recognition Software. The present volume is an introduction to Fourier series and their use in solving boundary value problems of mathematical physics. The text treats expansions in Fourier series, general orthogonal expansions, convergence of Fourier series, operations with Fourier series, double Fourier series, Fourier integrals and transforms, Bessel functions and Fourier-Bessel series, the eigenfunction method and its use in solving boundary value problems of mathematical analysis, applications to vibrating systems and heat flow problems. Every chapter moves clearly from topic to topic and theorem to theorem, with many theorem proofs given. A total of 107 problems will be found at the ends of the chapters, including many specially added to this English-language edition, and answers are given at the end of the text. Tolstov was one of the foremost mathematicians of the former Soviet Union.

Book Information

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Customer Reviews

Not for everyone, but if you need to work with complex signals (like human speech), this is one way to get working...

As its name ,it is a book about Fourier series . In chapter two one find another definition for orthogonal systems by their integrals. and there are examples and problems

Great for review and catch up! A required reference for all Physics students and Math students. Add this to your reference library.

Great book for the price. I will continue referencing it for some time.

A good, useful book for an engineer/scientist

This is excellently written. This is perfect for self study, which is exactly what I bought it for. The author has a way of clearly and succinctly explaining the sometimes complex material. It was rare that I needed to turn back to a page to remember something because the presentation of the material makes it stick.

I am not smart enough to understand this book. After re-taking calculus which I am in the process of doing, I will give it another crack.

Great study textbook!