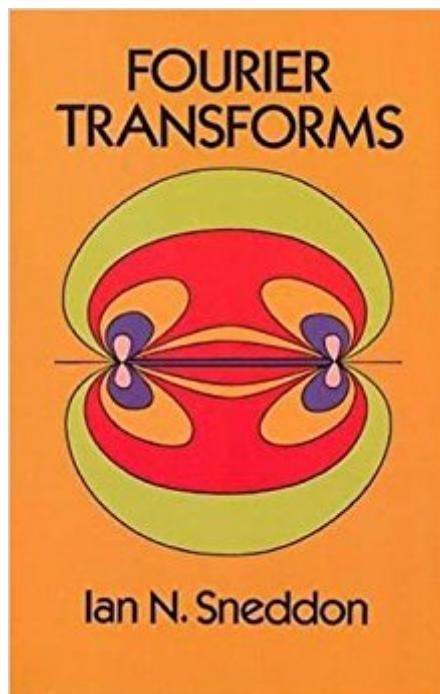


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## Synopsis

Richard A. Silverman's series of translations of outstanding Russian texts and monographs is well known to those in the fields of mathematics, physics, and engineering. This volume is another excellent text from this series, a valuable addition to the English-language literature on Fourier series. This edition is organized into nine well-defined chapters: Trigonometric Fourier Series, Orthogonal Systems, Convergence of Trigonometric Fourier Series, Trigonometric Series with Decreasing Coefficients, Operations on Fourier Series, Summation of Trigonometric Fourier Series, Double Fourier Series and the Fourier Integral, Bessel Functions and Fourier-Bessel Series, and the Eigenfunction Method and its Applications to Mathematical Physics. 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. Richard Silverman's excellent translation makes this book readily accessible to mathematicians and math students as well as workers and students in the fields of physics and engineering. He has also added a bibliography containing suggestions for collateral and supplementary reading.

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Series: Dover Books on Mathematics

Paperback: 560 pages

Publisher: Dover Publications (September 28, 2010)

Language: English

ISBN-10: 0486685225

ISBN-13: 978-0486685229

Product Dimensions: 5.4 x 1.1 x 8.5 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

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