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Sinopsis

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This graduate-level textbook is a detailed exposition of key mathematical tools in analysis aimed at students, researchers, and practitioners across science and engineering. Every topic covered has been specifically chosen because it plays a key role outside the field of pure mathematics. Although the treatment of each topic is mathematical in nature, and concrete applications are not delineated, the principles and tools presented are fundamental to exploring the computational aspects of physics and engineering. A central theme of the book is the structure of various vector spaces_most importantly, Hilbert spaces_and expansions of elements in these spaces in terms of bases.

Key topics and features include:

- * More than 150 exercises
- * Abstract and normed vector spaces
- * Approximation in normed vector spaces
- * Hilbert and Banach spaces
- * General bases and orthonormal bases
- * Linear operators on various normed spaces
- * The Fourier transform, including the discrete Fourier transform
- * Wavelets and multiresolution analysis
- * B-splines

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* Sturm-Liouville problems

As a textbook that provides a deep understanding of central issues in mathematical analysis, Functions, Spaces, and Expansions is intended for graduate students, researchers, and practitioners in applied mathematics, physics, and engineering. Readers are expected to have a solid understanding of linear algebra, in \mathbb{R}^n and in general vector spaces. Familiarity with the basic concepts of calculus and real analysis, including Riemann integrals and infinite series of real or complex numbers, is also required.