



Introduction to Integral Equations with Applications

By A. Jerri

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From the reviews of the First Edition: "Extremely clear, self-contained text . . . offers to a wide class of readers the theoretical foundations and the modern numerical methods of the theory of linear integral equations."-Revue Roumaine de Mathematiques Pures et Appliquées.

Abdul Jerri has revised his highly applied book to make it even more useful for scientists and engineers, as well as mathematicians. Covering the fundamental ideas and techniques at a level accessible to anyone with a solid undergraduate background in calculus and differential equations, Dr. Jerri clearly demonstrates how to use integral equations to solve real-world engineering and physics problems. This edition provides precise guidelines to the basic methods of solutions, details more varied numerical methods, and substantially boosts the total of practical examples and exercises. Plus, it features added emphasis on the basic theorems for the existence and uniqueness of solutions of integral equations and points out the interrelation between differentiation and integration. Other features include:

- * A new section on integral equations in higher dimensions.
- * An improved presentation of the Laplace and Fourier transforms.
- * A new detailed section for Fredholm integral equations of the first kind.
- * A new chapter covering the basic higher quadrature numerical integration rules.
- * A concise introduction to linear and nonlinear integral equations.
- * Clear examples of singular integral equations and their solutions.
- * A student's solutions manual available directly from the author.

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Editorial Review

Review

In the reviewer's opinion, the book is highly recommended to both undergraduate and graduate students in Science and Engineering, to applied scientists and engineers and to those teaching college courses oriented toward applications. In particular, the relationship between integral equation and a variety of applied problems, which is profusely illustrated in the book, makes it attractive for many readers. (Zentralblatt Math, Volume 938, No 13, 2000)

"This textbook is suitable for a good first course in integral equations at the undergraduate level for students with no background in complex variable theory." (Mathematical Reviews, Issue 2001j)

From the Back Cover

From the reviews of the First Edition: "Extremely clear, self-contained text . . . offers to a wide class of readers the theoretical foundations and the modern numerical methods of the theory of linear integral equations."-Revue Roumaine de Mathematiques Pures et Appliquées.

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About the Author

ABDUL J. JERRI, PhD, is Professor of Mathematics at Clarkson University, Potsdam, New York.

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