

The classical theory of integral equations : a concise treatment

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Abstrak

This book offers a thorough, concise, and rigorous treatment of the essential aspects of the theory of integral equations. Includes nearly 300 exercises specifically constructed to enhance the understanding of both routine and challenging concepts. Included in the presentation are, a section entitled Tools of the Trade at the beginning of each chapter, providing necessary background information for comprehension of the results presented in that chapter, thorough discussions of the analytical methods used to solve many types of integral equations, an introduction to the numerical methods that are commonly used to produce approximate solutions to integral equations, over 80 illustrative examples that are explained in meticulous detail, nearly 300 exercises specifically constructed to enhance the understanding of both routine and challenging concepts, and guides to computation to assist the student with particularly complicated algorithmic procedures.