

Second Edition

A FIRST COURSE IN INTEGRAL EQUATIONS

Abdul-Majid Wazwaz

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Course On Integral Equations

Llewelyn Gwyn Chambers



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Equations A. C. Pipkin, 1991-01-01 Principles of Differential and Integral Equations C. Corduneanu, 1977-01-30 In summary the author has provided an elegant introduction to important topics in the theory of ordinary differential equations and integral equations Mathematical Reviews This book is intended for a one semester course in differential and integral equations for advanced undergraduates or beginning graduate students with a view toward preparing the reader for graduate level courses on more advanced topics There is some emphasis on existence uniqueness and the qualitative behavior of solutions Students from applied mathematics physics and engineering will find much of value in this book The first five chapters cover ordinary differential equations Chapter 5 contains a good treatment of the stability of ODEs The next four chapters cover integral equations including applications to second order differential equations Chapter 7 is a concise introduction to the important Fredholm theory of linear integral equations The final chapter is a well selected collection of

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series of lectures given by the author at the Ruhr Universitat Bochum and the Christian Albrecht Universitat zu Kiel to students of mathematics The contents of the first six chapters correspond to an intensive lecture course of four hours per week for a semester Readers of the book require background from analysis and the foundations of numerical mathematics Knowledge of functional analysis is helpful but to begin with some basic facts about Banach and Hilbert spaces are sufficient The theoretical part of this book is reduced to a minimum in Chapters 2 4 and 5 more importance is attached to the numerical treatment of the integral equations than to their theory Important parts of functional analysis e g the Riesz-Schauder theory are presented without proof We expect the reader either to be already familiar with functional analysis or to become motivated by the practical examples given here to read a book about this topic We recall that also from a historical point of view functional analysis was initially stimulated by the investigation of integral equations

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