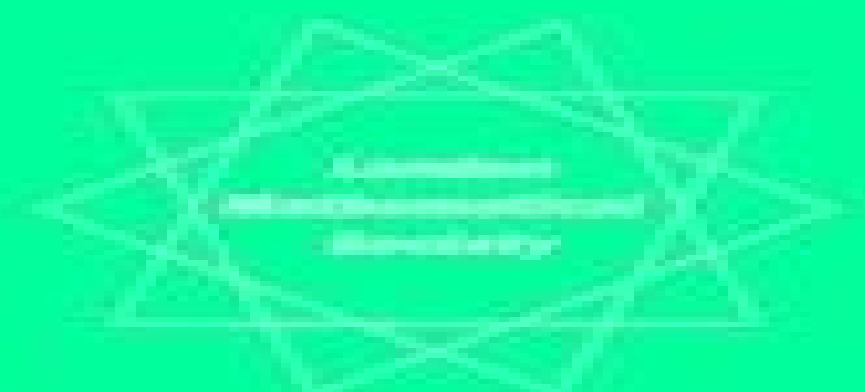


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Second Order Partial Differential Equations in Hilbert Spaces

Giuseppe Da Prato & Jerzy Zabczyk

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Second Order Partial Differential Equations In Hilbert Spaces

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students in Mathematics The topics even the most delicate are presented in a detailed way The book consists of two parts which focus on second order linear PDEs Part I gives an overview of classical PDEs that is equations which admit strong solutions verifying the equations pointwise Classical solutions of the Laplace heat and wave equations are provided Part II deals with variational PDEs where weak variational solutions are considered They are defined by variational formulations of the equations based on Sobolev spaces A comprehensive and detailed presentation of these spaces is given Examples of variational elliptic parabolic and hyperbolic problems with different boundary conditions are discussed *Elliptic Partial Differential Equations of Second Order* David Gilbarg, Neil S. Trudinger, 2001-01-12 This work aims to be of interest to those who have to work with differential equations and acts either as a reference or as a book to learn from The authors have made the treatment self contained *Partial Differential Equations through Examples and Exercises* E. Pap, Arpad Takaci, Djurdjica Takaci, 2012-12-06 The book *Partial Differential Equations through Examples and Exercises* has evolved from the lectures and exercises that the authors have given for more than fifteen years mostly for mathematics computer science physics and chemistry students By our best knowledge the book is a first attempt to present the rather complex subject of partial differential equations PDEs for short through active reader participation Thus this book is a combination of theory and examples In the theory of PDEs on one hand one has an interplay of several mathematical disciplines including the theories of analytical functions harmonic analysis ODEs topology and last but not least functional analysis while on the other hand there are various methods tools and approaches In view of that the exposition of new notions and methods in our book is step by step A minimal amount of expository theory is included at the beginning of each section Preliminaries with maximum emphasis placed on well selected examples and exercises capturing the essence of the material Actually we have divided the problems into two classes termed Examples and Exercises often containing proofs of the statements from Preliminaries The examples contain complete solutions and also serve as a model for solving similar problems given in the exercises The readers are left to find the solution in the exercises the answers and occasionally some hints are still given The book is implicitly divided in two parts classical and abstract *Evolution Equations, Semigroups and Functional Analysis* Brunello Terreni, 2002 Brunello Terreni 1953 2000 was a researcher and teacher with vision and dedication The present volume is dedicated to the memory of Brunello Terreni His mathematical interests are reflected in 20 expository articles written by distinguished mathematicians The unifying theme of the articles is evolution equations and functional analysis which is presented in various and diverse forms parabolic equations semigroups stochastic evolution optimal control existence uniqueness and regularity of solutions inverse problems as well as applications Contributors P Acquistapace V Barbu A Briani L Boccardo P Colli Franzone G Da Prato D Donatelli A Favini M Fuhrmann M Grasselli R Illner H Koch R Labbas H Lange I Lasiecka A Lorenzi A Lunardi P Marcati R Nagel G Nickel V Pata M M Porzio B Ruf G Savar R Schnaubelt E Sinestrari H Tanabe H Teismann E Terraneo R Triggiani A Yagi **Evolution Equations, Semigroups and Functional**

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