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Autore	Da Prato Giuseppe
Titolo	Functional Analytic Methods for Evolution Equations [[electronic resource] /] / by Giuseppe Da Prato, Peer Christian Kunstmann, Irena Lasiecka, Alessandra Lunardi, Roland Schnaubelt, Lutz Weis ; edited by Mimmo Iannelli, Rainer Nagel, Susanna Piazzera
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Soggetti	Differential equations Partial differential equations Fourier analysis Operator theory Calculus of variations Probabilities Ordinary Differential Equations Partial Differential Equations Fourier Analysis Operator Theory Calculus of Variations and Optimal Control; Optimization Probability Theory and Stochastic Processes
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Nota di contenuto	Preface -- Giuseppe Da Prato: An Introduction to Markov Semigroups -- Peer C. Kunstmann and Lutz Weis: Maximal L_p -regularity for Parabolic Equations, Fourier Multiplier Theorems and H^∞ -functional Calculus -- Irena Lasiecka: Optimal Control Problems and Riccati Equations for Systems with Unbounded Controls and Partially Analytic Generators-Applications to Boundary and Point Control Problems -- Alessandra Lunardi: An Introduction to Parabolic Moving Boundary Problems -- Roland Schnaubelt: Asymptotic Behaviour of

Parabolic Nonautonomous Evolution Equations.

Sommario/riassunto

This book consists of five introductory contributions by leading mathematicians on the functional analytic treatment of evolution equations. In particular the contributions deal with Markov semigroups, maximal L^p -regularity, optimal control problems for boundary and point control systems, parabolic moving boundary problems and parabolic nonautonomous evolution equations. The book is addressed to PhD students, young researchers and mathematicians doing research in one of the above topics.
