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Nonstandard Methods In The Calculus Of Variations

Martin Hanke

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complicated boundary conditions that are a natural consequence of flow in geological systems A new way to understand the flow in porous media is presented The authors pay attention to computational considerations and options for developing codes are addressed The note consists of five chapters the first is introductory the second and third are devoted to showing how one arrives at the solutions of interest the fourth chapter presents various reformulations to aid computations and presents a few illustrative examples the fifth chapter is a natural progression of the first four chapters to more complicated visualizations of flow in porous media   <u>Mathematical Methods in Scattering Theory and Biomedical Technology</u> George Dassios,Dimitrios I Fotiadis,Christos V Massalas,Kiriakie Kiriaki,1998-06-11 The papers in this volume address the state of the art and future directions in applied mathematics in both scattering theory and biomedical technology A workshop held in Metsovo Greece during the summer of 1997 brought together some of the world s foremose experts in the field with researchers working in Greece Sixteen of the contributed papers appear in this volume All the papers give new directions and in several cases the most important scientific contributions in the fields   **Generalized Fractional Calculus and Applications** Virginia S Kiryakova,1993-12-27 In this volume various applications are discussed in particular to the hyper Bessel differential operators and equations Dzrbashjan Gelfond Leontiev operators and Borel type transforms convolutions new representations of hypergeometric functions solutions to classes of differential and integral equations transmutation method and generalized integral transforms Some open problems are also posed This book is intended for graduate and post graduate students lecturers researchers and others working in applied mathematical analysis mathematical physics and related disciplines   **Stability Criteria for Fluid Flows** Adelina Georgescu,Lidia Palese,2010 This is a comprehensive and self contained introduction to the mathematical problems of thermal convection The book delineates the main ideas leading to the authors variant of the energy method These can be also applied to other variants of the energy method The importance of the book lies in its focussing on the best concrete results known in the domain of fluid flows stability and in the systematic treatment of mathematical instruments used in order to reach them   *Nonlinear Partial Differential Equations* A Benkirane,J P Gossez,1996-04-11 This book presents a collection of selected contributions on recent results in nonlinear partial differential equations from participants to an international conference held in Fes Morocco in 1994 The emphasis is on nonlinear elliptic boundary value problems but there are also papers deveoted to related areas such as monotone operator theory calculus of variations Hamiltonian systems and periodic solutions Some of the papers are exhaustive surveys while others contain new results published here for the first time This book will be of particular interest to graduate or postgraduate students as well as to specialists in these areas   **Integral Methods in Science and Engineering** Christian Constanda,1994-12-12 Integral methods are among the most powerful techniques for investigating real life phenomena translated into mathematical models This book contains a number of contributions to the development and application of such techniques in the context of linear and nonlinear problems in elasticity fluid dynamics and mathematical physics The

procedures featured in the volume include vortex methods analytic and numerical methods hybrid numerical schemes integral equation approaches and conservation laws The articles were presented by their authors at the Third International Conference on Integral Methods in Science and Engineering IMSE 93 27 29 August 1993 at Tohoku University Sendai Japan

Extending Modules Nguyen Viet Dung,2019-01-22 Module theory is an important tool for many different branches of mathematics as well as being an interesting subject in its own right Within module theory the concept of injective modules is particularly important Extending modules form a natural class of modules which is more general than the class of injective modules but retains many of its **Semigroups of Operators and Spectral Theory** S Kantorovitz,1995-06-19 This book presents some aspects of the theory of semigroups of operators mostly from the point of view of its interaction withspectral theory In order to make it self contained a concise description of the basic theory of semigroups with complete proofs is included in Part I Some of the author s recent results such as the construction of the Hille Yosida space for general operators the semi simplicity manifold and a Taylor formula for semigroups as functions of their generator are also included in Part I Part II describes recent generalizations most of them in bookform for the first time including pre semigroups semi simplicity manifolds in situations more general than that considered in Part I semigroups of unbounded symmetric operators and an analogous result on local cosine families and semi analytic vectors It is hoped that this book will inspire more research in this field This book will be of particular interest to graduate students and researchers working operator theory and its applications **Recent Developments in Evolution Equations** G F Roach,A C Mcbride,1995-04-28 This book presents the majority of talks given at an International Converence held recently at the University of Strathclyde in Glasgow The works presented focus on the analysis of mathematical models of systems evolving with time The main topics are semigroups and related subjects connected with applications to partial differential equations of evolution type Topics of particular interest include spectral and asymptotic properties of semigroups B evolution scattering theory and coagulation fragmentation phenomena **Common Zeros of Polynominals in Several Variables and Higher Dimensional Quadrature** Yuan Xu,2020-12-17 Presents a systematic study of the common zeros of polynomials in several variables which are related to higher dimensional quadrature The author uses a new approach which is based on the recent development of orthogonal polynomials in several variables and differs significantly from the previous ones based on algebraic ideal theory Featuring a great deal of new work new theorems and in many cases new proofs this self contained work will be of great interest to researchers in numerical analysis the theory of orthogonal polynomials and related subjects Conjugate Gradient Type Methods for Ill-Posed Problems Martin Hanke,2017-11-22 The conjugate gradient method is a powerful tool for the iterative solution of self adjoint operator equations in Hilbert space This volume summarizes and extends the developments of the past decade concerning the applicability of the conjugate gradient method and some of its variants to ill posed problems and their regularization Such problems occur in applications from almost all natural and technical sciences including astronomical and

geophysical imaging signal analysis computerized tomography inverse heat transfer problems and many more This Research Note presents a unifying analysis of an entire family of conjugate gradient type methods Most of the results are as yet unpublished or obscured in the Russian literature Beginning with the original results by Nemirovskii and others for minimal residual type methods equally sharp convergence results are then derived with a different technique for the classical Hestenes Stiefel algorithm In the final chapter some of these results are extended to selfadjoint indefinite operator equations The main tool for the analysis is the connection of conjugate gradient type methods to real orthogonal polynomials and elementary properties of these polynomials These prerequisites are provided in a first chapter Applications to image reconstruction and inverse heat transfer problems are pointed out and exemplarily numerical results are shown for these applications

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