

Svatopluk Fučík
Jindřich Nečas
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Vladimír Souček

Spectral Analysis of Nonlinear Operators

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Anthony Francis Ruston



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Branching phenomena in fluid dynamics and chemical reaction diffusion theory W Klingenberg The theory of closed geodesics P Rabinowitz Variational methods for nonlinear eigenvalue problems M Reeken Existence of solutions to the Hartree Fock equations R Turner Positive solutions of nonlinear eigenvalue problems Partial Differential Equations Abdelmoujib Benkirane, A. Touzani, 2002-05-06 This impressive compilation of the material presented at the International Conference on Partial Differential Equations held in Fez Morocco represents an integrated discussion of all major topics in the area of partial differential equations highlighting recent progress and new trends for real world applications **The Mountain Pass Theorem** Youssef Jabri, 2003-09-15 This 2003 book presents min max methods through a study of the different faces of the celebrated Mountain Pass Theorem MPT of Ambrosetti and Rabinowitz The reader is led from the most accessible results to the forefront of the theory and at each step in this walk between the hills the author presents the extensions and variants of the MPT in a complete and unified way Coverage includes standard topics but it also covers other topics covered nowhere else in book form the non smooth MPT the geometrically constrained MPT numerical approaches to the MPT and even more exotic variants Each chapter has a section with supplementary comments and bibliographical notes and there is a rich bibliography and a detailed index to aid the reader The book is suitable for researchers and graduate students Nevertheless the style and the choice of the material make it accessible to all newcomers to the field

Generalized Inverses and Applications M. Zuhair Nashed, 2014-05-10 Generalized Inverses and Applications contains the proceedings of an Advanced Seminar on Generalized Inverses and Applications held at the University of Wisconsin Madison on October 8 10 1973 under the auspices of the university's Mathematics Research Center The seminar provided a forum for discussing the basic theory of generalized inverses and their applications to analysis and operator equations Numerical analysis and approximation methods are considered along with applications to statistics and econometrics optimization system theory and operations research Comprised of 14 chapters this book begins by describing a unified approach to generalized inverses of linear operators with particular reference to algebraic topological extremal and proximal properties The reader is then introduced to the algebraic aspects of the generalized inverse of a rectangular matrix the Fredholm pseudoinverse and perturbations and approximations for generalized inverses and linear operator equations Subsequent chapters deal with various applications of generalized inverses including programming games and networks as well as estimation and aggregation in econometrics This monograph will be of interest to mathematicians and students of mathematics *Elliptic Operators and Compact Groups* M.F. Atiyah, 2006-08-01 These lectures based on joint work with I M Singer will describe an extension of the index theory of elliptic operators beyond that developed in 7 8 9 In those papers we studied as elliptic operator P invariant under a compact Lie group G *Fourier Integral Operators and Partial Differential Equations* J. Chazarain, 2006-11-14 **Fredholm Theory in Banach Spaces** Anthony Francis Ruston, 2004-06-03 Presents analogues for operators on Banach spaces of Fredholm's solution of integral equations of the

second kind *Nonlinear Spectral Theory* Jürgen Appell, Espedito De Pascale, Alfonso Vignoli, 2004 In view of the eminent importance of spectral theory of linear operators in many fields of mathematics and physics it is not surprising that various attempts have been made to define and study spectra also for nonlinear operators This book provides a comprehensive and self contained treatment of the theory methods and applications of nonlinear spectral theory The only prerequisite for understanding this book is a modest background in functional analysis and operator theory It is addressed to non specialists who want to get an idea of the development of spectral theory for nonlinear operators in the last 30 years as well as a glimpse of the diversity of the directions in which current research is moving

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