

Robert R. Phelps

**Convex Functions,
Monotone Operators
and Differentiability**

1364

2nd edition

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Convex Functions, Monotone Operators and Differentiability Robert R. Phelps, 2013-12-11 These notes start with an introduction to the differentiability of convex functions on Banach spaces leading to the study of Asplund spaces and their intriguing relationship to monotone operators and more general set valued maps and Banach spaces with the Radon Nikodym property While much of this is classical some of it is presented using streamlined proofs which were not available until recently Considerable attention is paid to contemporary results on variational principles and perturbed optimization in Banach spaces exhibiting their close connections with Asplund spaces An introductory course in functional analysis is adequate background for reading these notes which can serve as the basis for a seminar or a one term graduate course There are numerous exercises many of which form an integral part of the exposition **Canadian Journal of Mathematics**

, 1991-06 **Lipschitz Functions** Ștefan Cobzaș, Radu Miculescu, Adriana Nicolae, 2019-05-23 The aim of this book is to present various facets of the theory and applications of Lipschitz functions starting with classical and culminating with some recent results Among the included topics we mention characterizations of Lipschitz functions and relations with other classes of functions extension results for Lipschitz functions and Lipschitz partitions of unity Lipschitz free Banach spaces and their applications compactness properties of Lipschitz operators Bishop Phelps type results for Lipschitz functionals applications to best approximation in metric and in metric linear spaces Kantorovich Rubinstein norm and applications to duality in the optimal transport problem Lipschitz mappings on geodesic spaces The prerequisites are basic results in real analysis functional analysis measure theory including vector measures and topology which for reader s convenience are surveyed in the first chapter of the book **Fixed-Point Algorithms for Inverse Problems in Science and Engineering** Heinz H.

Bauschke, Regina S. Burachik, Patrick L. Combettes, Veit Elser, D. Russell Luke, Henry Wolkowicz, 2011-05-27 Fixed Point Algorithms for Inverse Problems in Science and Engineering presents some of the most recent work from top notch researchers studying projection and other first order fixed point algorithms in several areas of mathematics and the applied sciences The material presented provides a survey of the state of the art theory and practice in fixed point algorithms identifying emerging problems driven by applications and discussing new approaches for solving these problems This book incorporates diverse perspectives from broad ranging areas of research including variational analysis numerical linear algebra biotechnology materials science computational solid state physics and chemistry Topics presented include Theory of Fixed point algorithms convex analysis convex optimization subdifferential calculus nonsmooth analysis proximal point methods projection methods resolvent and related fixed point theoretic methods and monotone operator theory Numerical analysis of fixed point algorithms choice of step lengths of weights of blocks for block iterative and parallel methods and of relaxation parameters regularization of ill posed problems numerical comparison of various methods Areas of Applications engineering image and signal reconstruction and decompression problems computer tomography and radiation treatment

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 computational chemistry molecular structure simulation and other areas Because of the variety of applications presented this
 book can easily serve as a basis for new and innovated research and collaboration *Infinite Products of Operators and
 Their Applications* Simeon Reich, Alexander J. Zaslavski, 2015-03-30 This volume contains the proceedings of the workshop on
 Infinite Products of Operators and Their Applications held from May 21-24, 2012 at the Technion Israel Institute of
 Technology Haifa Israel The papers cover many different topics regarding infinite products of operators and their
 applications projection methods for solving feasibility and best approximation problems arbitrarily slow convergence of
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 mappings Poisson's equation for mean ergodic operators vector valued metrics in fixed point theory contractivity of infinite
 products and mean convergence theorems for generalized nonspreading mappings This book is co-published with Bar Ilan
 University Ramat Gan Israel Canadian Mathematical Bulletin, 1993-12 **Recent Developments in Vector
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 Ramm, P. N. Shivakumar, Abraham Vilgelmovich Strauss, 2000 Together with the papers on the abstract operator theory are
 many papers on the theory of differential operators boundary value problems inverse scattering and other inverse problems
 and on applications to biology chemistry wave propagation and many other areas **BOOK JACKET Handbook of Convex
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 and its many ramifications and connections with other fields of mathematics including convexity lattices crystallography and
 convex functions The selection first offers information on the geometry of numbers lattice points and packing and covering
 with convex sets Discussions focus on packing in non-Euclidean spaces problems in the Euclidean plane general convex
 bodies computational complexity of lattice point problem centrally symmetric convex bodies reduction theory and lattices and
 the space of lattices *Variational Methods in Partially Ordered Spaces* Alfred Göpfert, Hassan Riahi, Christiane
 Tammer, Constantin Zălinescu, 2006-04-18 This book discusses basic tools of partially ordered spaces and applies them to

variational methods in Nonlinear Analysis and for optimizing problems This book is aimed at graduate students and research mathematicians **Israel Journal of Mathematics** ,1990 Russian Mathematical Surveys ,1998 Far East Journal of Mathematical Sciences ,2003 **Mathematical Reviews** ,2005 *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics,2007 **Serdica Mathematical Journal** ,2003 Journal of Nonlinear and Convex Analysis ,2005 **Seminar on Mathematical Analysis** ,1994 **Proceedings of the American Mathematical Society** American Mathematical Society,2001 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society **Séminaire d'analyse convexe** ,1992

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