

Preface

This is the fourth English edition of the book *Convexity and Optimization in Banach Spaces*. With respect to the previous edition published by Kluwer in 1986, this book contains new results pertaining to new concepts of subdifferential for convex functions and new duality results in convex programming. The last chapter of the book, concerned with convex control problems, was rewritten for this edition and completed with new results concerning boundary control systems, the dynamic programming equations in optimal control theory, periodic optimal control problems. Also, the bibliographical list and bibliographical comments were updated. The contents, as well as the structure of the book, were modified in order to include a few fundamental results and progress in the theory of infinite-dimensional convex analysis which were obtained in the last 25 years.

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