

Preface

This book entitled *Topics in Mathematical Analysis and Applications* consists of papers written by eminent scientists from the international mathematical community, who present significant advances in a number of theories and problems of mathematical analysis and its applications. These contributions focus on both old and recent developments of analytic inequalities, operator theory, functional analysis, approximation theory, functional equations, differential equations, wavelets, discrete mathematics and mechanics. Special emphasis is given to new results that have been obtained in the above-mentioned disciplines in which nonlinear analysis plays a central role. Furthermore some review papers are published in this volume which are particularly useful for a broader audience of readers in mathematical analysis as well as for graduate students who search for the latest information. It is a pleasure to express our deepest thanks to all of the mathematicians who, through their works, participated in this volume. We would also wish to acknowledge the superb assistance that the staff of Springer has provided in the preparation of the publication.

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