PREFACE

The present volume consists of research papers, survey papers and summaries of lectures prepared by the participants of the Spectral Theory Semester held in Banach Center (Warsaw 23 Sept.–16 Dec. 1977). In one case there is a paper prepared by an invited collegue who personally could not participate in the Semester.

The main topics of activity were

1. Spectral theory in topological algebras, joint spectra and functional calculi,

2. Spectral theory of operators on Hilbert and Banach spaces,

3. Applications of spectral theory to numerical methods, mathematical physics, etc.

Not all of over hundred participants contributed to this volume, however, the enclosed papers give a good idea about the activities of the Semester. The problems at the end of this volume are taken from the problem book of the Semester; other problems are scattered through the papers.

W. Żelazko