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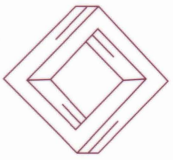

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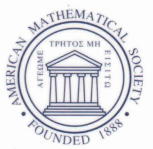
SOCIEDAD MATEMÁTICA MEXICANA

Topological Algebras and Their Applications

Fourth International Conference on
Topological Algebras and Their Applications
July 1–5, 2002
Oaxaca, Mexico

Hugo Arizmendi
Carlos Bosch
Lourdes Palacios
Editors



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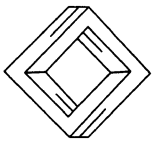

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This volume contains talks presented at the Fourth International Conference on Topological Algebras and Their Applications as well as articles received in response to a call for papers. The conference was held from July 1–5, 2002, in Oaxaca, México, and was sponsored by the Consejo Nacional de Ciencia y Tecnología (grant 38610-E), the government of the state of Oaxaca, the Sociedad Matemática Mexicana, the Instituto Tecnológico Autónomo de México, the Universidad Autónoma Metropolitana, the Universidad Autónoma Benito Juárez de Oaxaca, and the Universidad Nacional Autónoma de México.

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Preface

The *Fourth International Conference on Topological Algebras and Their Applications* was held in the city of Oaxaca, Mexico, from July 1 to 5, 2002. The main purpose of the meeting was to bring together the international group traditionally attending such conferences with Mexican specialists in the field of topological vector spaces. Topics covered by the lectures included function algebras, various types of topological algebras (locally convex, locally pseudoconvex, nonconvex, Gelfand-Mazur, etc), locally convex and Banach spaces, spectral theory, and operator theory and related topics.

This volume contains talks presented at the conference as well as articles received in response to a call for papers; some are expository and provide new insights, while others contain new research. Most of them are addressed to mathematicians working in any area of analysis, interested in topological algebras or topological vector spaces.

The Fourth International Conference on Topological Algebras and Their Applications was jointly sponsored by the Consejo Nacional de Ciencia y Tecnología (grant 38610-E), the government of the state of Oaxaca, the Sociedad Matemática Mexicana, the Instituto Tecnológico Autónomo de México, the Universidad Autónoma Metropolitana, the Universidad Autónoma Benito Juárez de Oaxaca, and the Universidad Nacional Autónoma de México.

The editors would like to thank those who contributed to the success of the conference and the existence of this publication: the authors, the referees, and the American and Mexican Mathematical Societies. In particular, we thank Ángel Carrillo and Ricardo Gómez, the coorganizers of the conference; Martha Takane and Luis Gorostiza, editors of Aportaciones Matemáticas; and Leonardo Espinosa and Gabriela Sanginés, who provided excellent technical assistance.

The first three International Conferences on Topological Algebras and Their Applications were held in 1999 in Tartu, Estonia; in 2000 in Rabat, Morocco; and in 2001 in Oulu, Finland. We cherish the hope that this tradition will continue uninterrupted for many years.

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The book is suitable for graduate students and research mathematicians working in topological vector spaces, topological algebras, and their applications.

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