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Nota di contenuto	ORGANIZING COMMITTEES; PREFACE; CONTENTS; An introduction to discrete holomorphic local dynamics in one complex variable M. Abate; 1. Introduction; 2. Hyperbolic dynamics; 3. Superattracting dynamics; 4. Parabolic dynamics; 5. Elliptic dynamics; References; Notes in transference of bilinear multipliers O. Blasco; 1. Notation and preliminaries; 2. Methods and applications; References; Generating functions of Lebesgue spaces by translations J. Bruna; 1. Discrete translates, generating functions; 2. Connections with density of exponentials 3. The problem in $L_1(\mathbb{R})$ and its connections with the spectral radius problem 4. Relation with quasianalytic classes; 5. The spectral sets for $L_1(\mathbb{R})$ ; 6. The generators for $L_1(\mathbb{R})$ ; 7. The restricted problem; References; A new look at compactness via distances to function spaces C. Angosto and B. Cascales; 1. Introduction; 2. Distance to spaces of continuous functions; 3. Distances to spaces of continuous functions on compact spaces; 4. Distance to Banach spaces; 5. Distances to continuous functions on countably $K$ -determined spaces; 6. Baire one functions; 7. Further studies; References

Spaces of smooth functions E. Harboure 1. Fractional integration; 2. Functions with controlled mean oscillation; 3. Smooth function spaces and wavelets; References; Domination by positive operators and strict singularity F. L. Hernandez; 1. Strictly singular operators; 2. Strictly singular inclusions; 3. Domination by strictly singular operators; 4. Powers of dominated operators; References; 1. Introduction; 2. The origin of the Hahn-Banach Theorem; 3. Helly; 4. The "Landmark": Helly's 1921 article; 5. Helly's technique; 6. The complex case; 7. Intersection properties; References

The Hahn-Banach Theorem and the sad life of E. Helly L. Narici and E. Beckenstein The Banach space  $L_p$  E. Odell; References; Problems on hypercyclic operators H. N. Salas; 1. Continuous functions with dense orbits; 2. Some properties of hypercyclic operators; 3. Ansari's theorem; 4. Variations on a theme of Leon Saavedra and Muller; 5. Dual hypercyclic operators; Operator spaces: Basic theory and applications B. M. Schreiber; 1. Operator spaces and completely bounded maps; 2. The fundamental theorem and some consequences; 3. Tensor products of operator spaces

4. Applications to operator algebra theory 4.1. An application of the operator space projective tensor product; 4.2. An application to nonselfadjoint operator algebras; 5. Applications to harmonic analysis; 5.1. An application to Fourier algebras; 5.2. An application of the Haagerup tensor product; 6. Applications to Probability Theory; References; Mathematics and markets: Existence and efficiency of competitive equilibrium A. Villar; 1. Introduction; 2. Social equilibrium; 3. From social equilibrium to competitive equilibrium; 4. Equilibrium and efficiency; 5. Final comments; References

Ideals in F-Algebras W. Zelazko

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## Sommario/riassunto

This volume comprises a collection of articles by leading researchers in mathematical analysis. It provides the reader with an extensive overview of the present-day research in different areas of mathematical analysis (complex variable, harmonic analysis, real analysis and functional analysis) that holds great promise for current and future developments. These review articles are highly useful for those who want to learn about these topics, as many results scattered in the literature are reflected through the many separate papers featured herein.

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