

Analyse de Fourier, analyse harmonique abstraite

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Peter GRABNER, Wolfgang WOESS, (Editors). — **Fractals in Graz 2001: analysis – dynamics – geometry – stochastic.** — Trends in mathematics. — Un vol. relié, 17×24 , de XI, 162 p. — ISBN 3-7643-7006-8. — Prix: SFr. 98.00. — Birkhäuser, Basel, 2003.

The volume presents a multitude of different directions of active current research linked with the modern theory of fractal structures. All papers were written upon invitation by the editors. The book is addressed to mathematicians and scientists who are interested in any of the following topics: fractal dimensions, fractal energies, fractal groups, stochastic processes on fractals, self-similarity, spectra of random walks, tilings, analysis on fractals, dynamical systems. The readers will be introduced to the most recent results and problems on these subjects. Both researchers and graduate students will benefit from the clear expositions.

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Antoni ZYGMUND. — **Trigonometric series.** — With a foreword by Robert Fefferman. — Third edition, volumes I and II combined. — Cambridge mathematical library. — Un vol. broché, 15×23 , de XIII, 383 p. et VII, 364 p. — ISBN 0-521-89053-5. — Prix: £ 39.95. — Cambridge University Press, Cambridge, 2003.

A greatly enlarged second edition published by Cambridge in two volumes in 1959 took full account of developments in trigonometric series, Fourier series and related branches of pure mathematics since publication of the original edition. The two volumes are here bound together. Volume I, containing the completely rewritten material of the original work, deals with trigonometric series and Fourier series – auxiliary results: Fourier coefficients – elementary theorems on the convergence of S_n ; summability of Fourier series; classes of functions and Fourier series; special trigonometric series; the absolute convergence of trigonometric series; complex methods in Fourier series; divergence of Fourier series; Riemann's theory of trigonometric series. Volume II provides much material previously unpublished in book form, and covers trigonometric interpolation; differentiation of series – generalized derivatives; interpolation of linear operation – more about Fourier coefficients; convergence and summability almost everywhere; complex methods; applications of the Littlewood-Paley function to Fourier series; Fourier integrals; a topic in multiple Fourier series.

Analyse fonctionnelle

Pere ARA, MARTIN MATHIEU. — **Local multipliers of C^* -algebras.** — Springer monographs in mathematics. — Un vol. relié, 16×24 , de XII, 319 p. — ISBN 1-85233-237-9. — Prix: € 86.95. — Springer, London, 2003.

The theme of this book is operator theory on C^* -algebras. The main novel tool employed is the concept of local multipliers. The book serves two purposes. The first part provides the reader with a thorough introduction to the theory of local multipliers. Only a minimal knowledge of algebra and analysis is required, as the prerequisites in both non-commutative ring theory and basic C^* -algebra theory are presented in the first chapter. In the second part, local multipliers are used to obtain a wealth of information on various classes of operators on C^* -algebras, including (groups of) automorphisms, derivations, elementary operators, Lie isomorphisms and Lie derivations, as well as others. Many of the results appear in print for the first time. The authors have made an effort to avoid intricate technicalities thus some of the results are not pushed to their utmost generality. Several open problems are discussed, and hints for further developments are given.