

Zeitschrift: L'Enseignement Mathématique
Herausgeber: Commission Internationale de l'Enseignement Mathématique
Band: 49 (2003)
Heft: 1-2: L'ENSEIGNEMENT MATHÉMATIQUE

Kapitel: Analyse de Fourier, analyse harmonique abstraite

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 15.08.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

Peter GRABNER, Wolfgang WOESS, (Editors). — **Fractals in Graz 2001: analysis – dynamics – geometry – stochastics.** — 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.

Analyse de Fourier, analyse harmonique abstraite

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 $S[f]$; 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.