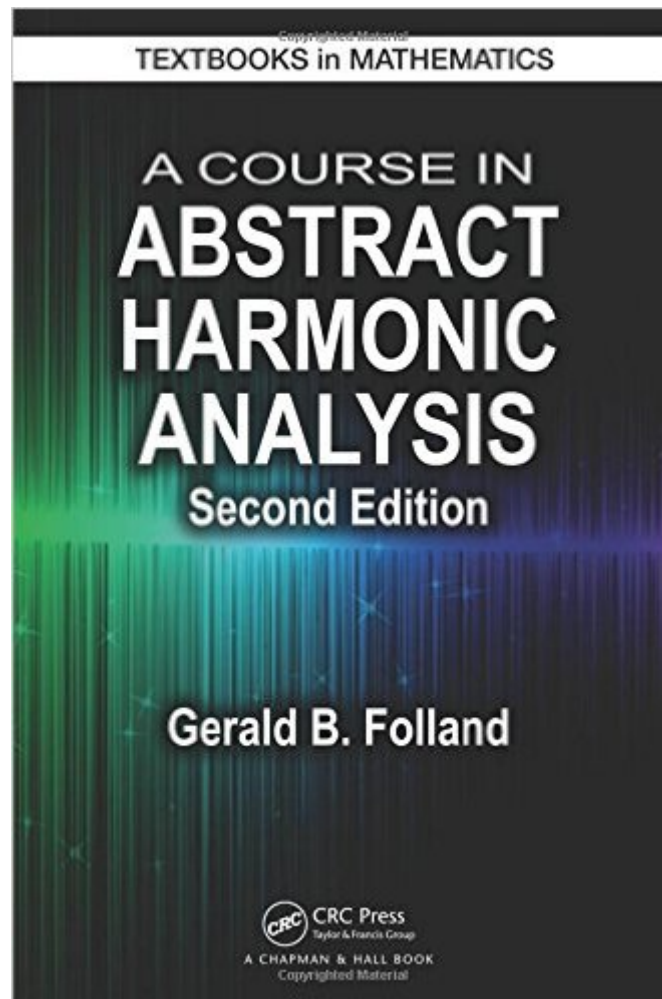


The book was found

A Course In Abstract Harmonic Analysis, Second Edition (Textbooks In Mathematics)



Synopsis

A Course in Abstract Harmonic Analysis is an introduction to that part of analysis on locally compact groups that can be done with minimal assumptions on the nature of the group. As a generalization of classical Fourier analysis, this abstract theory creates a foundation for a great deal of modern analysis, and it contains a number of elegant results and techniques that are of interest in their own right. This book develops the abstract theory along with a well-chosen selection of concrete examples that exemplify the results and show the breadth of their applicability. After a preliminary chapter containing the necessary background material on Banach algebras and spectral theory, the text sets out the general theory of locally compact groups and their unitary representations, followed by a development of the more specific theory of analysis on Abelian groups and compact groups. There is an extensive chapter on the theory of induced representations and its applications, and the book concludes with a more informal exposition on the theory of representations of non-Abelian, non-compact groups. Featuring extensive updates and new examples, the Second Edition: Adds a short section on von Neumann algebras Includes Mark Kac's simple proof of a restricted form of Wiener's theorem Explains the relation between $SU(2)$ and $SO(3)$ in terms of quaternions, an elegant method that brings $SO(4)$ into the picture with little effort Discusses representations of the discrete Heisenberg group and its central quotients, illustrating the Mackey machine for regular semi-direct products and the pathological phenomena for nonregular ones A Course in Abstract Harmonic Analysis, Second Edition serves as an entrance to advanced mathematics, presenting the essentials of harmonic analysis on locally compact groups in a concise and accessible form.

Book Information

Series: Textbooks in Mathematics (Book 49)

Hardcover: 319 pages

Publisher: Chapman and Hall/CRC; 2 edition (September 25, 2015)

Language: English

ISBN-10: 1498727131

ISBN-13: 978-1498727136

Product Dimensions: 6 x 0.9 x 9.3 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,962,804 in Books (See Top 100 in Books) #122 in Books > Science & Math > Mathematics > Infinity #442 in Books > Science & Math > Mathematics > Pure

Mathematics > Functional Analysis #17054 inÂ Books > Textbooks > Science & Mathematics > Mathematics

[Download to continue reading...](#)

A Course in Abstract Harmonic Analysis, Second Edition (Textbooks in Mathematics) Applied Abstract Algebra with MapleTM and MATLAB[®], Third Edition: A Maple and MATLAB Approach, Third Edition (Textbooks in Mathematics) Introduction to Abstract Algebra (Textbooks in Mathematics) Classical and Multilinear Harmonic Analysis (Cambridge Studies in Advanced Mathematics) (Volume 1) Numerical Analysis for Engineers: Methods and Applications, Second Edition (Textbooks in Mathematics) Applied Differential Equations: The Primary Course (Textbooks in Mathematics) A Book of Abstract Algebra: Second Edition (Dover Books on Mathematics) Selected Unsolved Problems in Coding Theory (Applied and Numerical Harmonic Analysis) Stochastic Models, Information Theory, and Lie Groups, Volume 2: Analytic Methods and Modern Applications (Applied and Numerical Harmonic Analysis) Harmonic Analysis: From Fourier to Wavelets (Student Mathematical Library) An Introduction to Harmonic Analysis An Introduction to Harmonic Analysis (Cambridge Mathematical Library) Harmonic Analysis on Symmetric Spaces_Higher Rank Spaces, Positive Definite Matrix Space and Generalizations Complex Harmonic Analysis A First Course in Abstract Algebra (3rd Edition) First Course in Abstract Algebra Python: PYTHON CRASH COURSE - Beginner's Course To Learn The Basics Of Python Programming In 24 Hours!: (Python, Python Programming, Python for Dummies, Python for Beginners, python crash course) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) Set Theory: A First Course (Cambridge Mathematical Textbooks) A Book of Abstract Algebra: Second Edition

[Dmca](#)