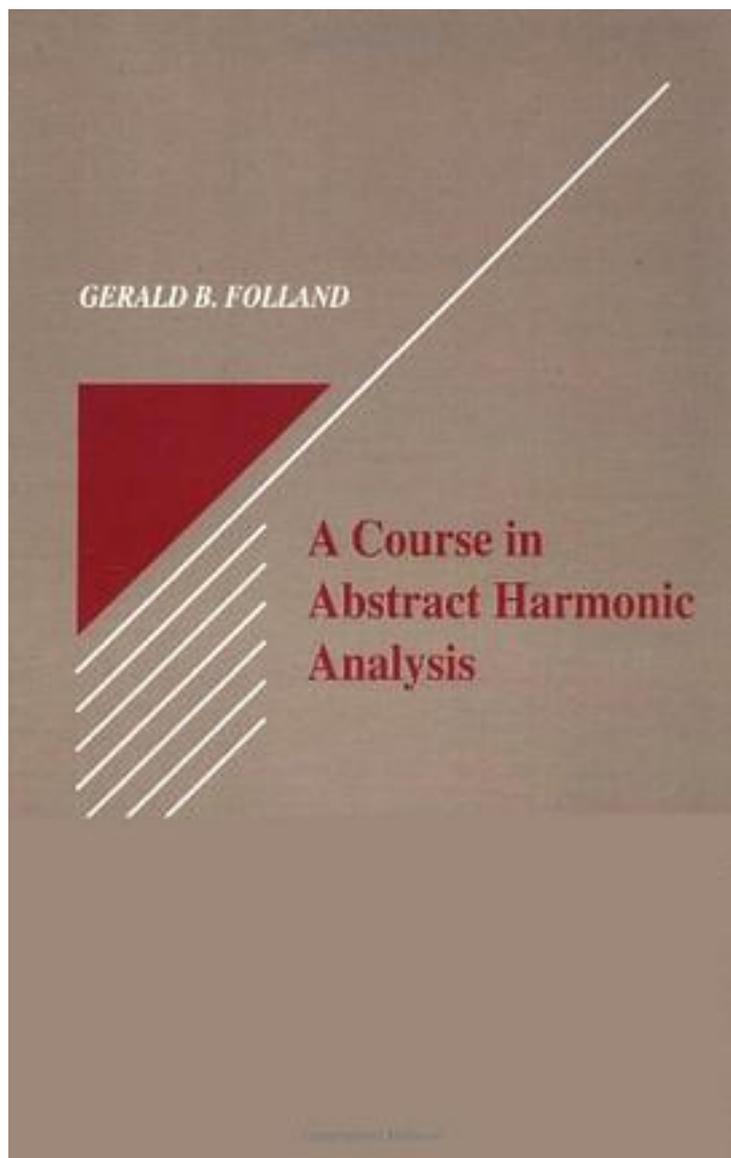


A Course in Abstract Harmonic Analysis (Studies in Advanced Mathematics)



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Abstract theory remains an indispensable foundation for the study of concrete cases. It shows what the general picture should look like and provides results that are useful again and again. Despite this, however, there are few, if any introductory texts that present a unified picture of the general abstract theory. "A Course in Abstract Harmonic Analysis" offers a concise, readable introduction to Fourier analysis on groups and unitary representation theory. After a brief review of the relevant parts of Banach algebra theory and spectral theory, the book proceeds to the basic facts about locally compact groups, Haar measure, and unitary representations, including the Gelfand-Raikov existence theorem. The author devotes two chapters to analysis on Abelian groups and compact groups, then explores induced representations, featuring the imprimitivity theorem and its applications. The book concludes with an informal discussion of some further aspects of the representation theory of non-compact, non-Abelian groups.

作者介绍:

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标签

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评论

banach代数和谱论。本质是介绍的傅里叶变换的群论方面，基本的思想来源是实直线的傅里叶变换 R 是局部紧群 $\exp 2\pi ixs$ 是它的不可约表示 变换是 L^1R 上的gelfand变换 平移不变量 L^2R 算子的代数的谱分解， R 的正则表示的分解到它的不可约组分。局部紧群的酉表示论：Schur 引理 局部紧群 G 的酉表示和 L^1G 的 $*$ 表示关系；Gelfand-Raikov存在定理 不可约表示：循环表示和正定函数 Gelfand-Naimark理论也是交换 C^* 代数的结构定理： C^* 代数等距 $*$ 同构于希尔伯特空间的有界算子的代数的 C^* 子代数

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