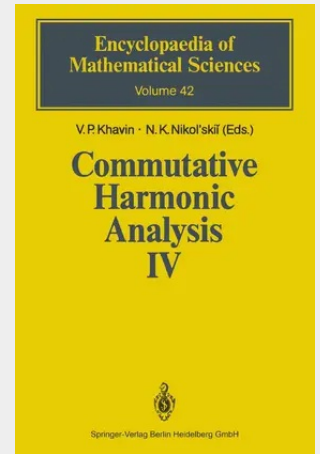


Commutative Harmonic Analysis IV

Harmonic Analysis in $\mathbb{R}^n$

With the groundwork laid in the first volume (EMS 15) of the Commutative Harmonic Analysis subseries of the Encyclopaedia, the present volume takes up four advanced topics in the subject: Littlewood-Paley theory for singular integrals, exceptional sets, multiple Fourier series and multiple Fourier integrals.

In this volume of the series "Commutative Harmonic Analysis", three points mentioned in the preface to the first volume are realized: 1) Multiple Fourier series and Fourier integrals; 2) The machinery of singular integrals; 3) Exceptional sets in harmonic analysis. The first theme is the subject matter of the contribution by Sh. A. Aliyev, R. R. Ashurov, A. K. Pulatov, which in an obvious way constitutes the "multidimensional parallel" to S. V. Kislyakov's article in Volume I, devoted to the "inner" questions of Fourier analysis of functions of one variable. The passage to the analysis of functions defined on $\mathbb{R}^n$, $n > 1$, tells us something essential about the nature of the problem under study. The contribution by E. M. Dyn'kin, the beginning of which was already published in Volume I of this subseries, is devoted to singular integrals. Besides classical material (Calderón-Zygmund and Littlewood-Paley theory), this article contains an exposition of recent results, which in an essential way have widened the scope of the whole area and have made it possible to solve many old problems, thereby sometimes transcending the very frames of harmonic analysis in its canonical interpretation.



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