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Sinopsis

ISBN: 9781461453918

Only book on interpolation sets

Only book in English with Pisier-Bourgain results

Brings together results from topology, probability, combinatorics, algebra and analysis ?

Understanding special sets of integers was classically of interest to Hadamard, Zygmund and others, and continues to be of interest today. This book is a modern treatment of the subject of interpolation and Sidon sets. It is a unique book, aimed at both new and experienced researchers. In particular, this is the only book in English which features a complete treatment of the Pisier-Bourgain results on Sidon sets, many of which were originally in French, in hard to access publications. Applications of the P-B results, due to Pisier, Bourgain, Ramsey, and the authors are included. The book introduces the reader to a wealth of methods important in mathematics today: topological, probabilistic, algebraic, combinatoric and analytic. It prepares students to perform research in the area and provides both exercises and open problems. The book also provides direction to the literature for topics it does not fully cover. The book is self-contained, with appendices covering results that are required, but not necessarily in the pre-requisite background of a student ready to choose an area for research in harmonic analysis. ?

Content Level » Research

Keywords » Bohr Topology - Interpolation Sets - Kronecker sets - Probabilistic Methods in Harmonic Analysis - Quasi-independent sets - Sidon Sets

Related subjects » Analysis