1. Record Nr. UNINA9910821757603321

Titolo	Topics in harmonic analysis and ergodic theory : December 2-4, 2005, DePaul University, Chicago, Illinois / / Joseph M. Rosenblatt, Alexander M. Stokolos, Ahmed I. Zayed, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2007] ©2007
ISBN	0-8218-8123-X 0-8218-4235-8
Descrizione fisica	1 online resource (242 p.)
Collana	Contemporary mathematics, , 0271-4132 ; ; volume 444
Disciplina	515/.2433
Soggetti	Harmonic analysis Ergodic theory Geometry - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Preface""; ""List of Participants""; ""Topics in Ergodic Theory and Harmonic Analysis: An Overview""; ""The mathematical work of Roger Jones""; ""The Central Limit Theorem for Random Walks on Orbits of Probability Preserving Transformations""; ""Probability, Ergodic Theory, and Low-Pass Filters""; ""(1) Introduction. An overview. Basic notation""; ""(2) Two simple examples: the Haar function and the stretched Haar function. Correcting defective filters""; ""(3) An outline of the probability argument: Low-pass filters as transition probabilities and a zero-one principle"" ""(10) The asymptotic behavior of paths from an initial point. Recurrent and transient points. Attractors and inaccessible sets. Examples""""""(11) The probabilistic description of low-pass filters (Theorem 11.1)""; ""(12) The polynomial case: Daubechies' filters and the Pascal-Fermat correspondence. Cohen's necessary and sufficient conditions. A zero-one principle (Theorem 12.1)""; ""(13) Analytic conditions for low-pass filters. A class of examples from subshifts of finite type (Theorem 13.1)""; ""(14) Concluding remarks""; ""(15) References"" ""Ergodic Theory on Borel Foliations by Rn and Zn""""""Short review of the

work of Professor J. Marshall Ash""; ""Uniqueness questions for multiple trigonometric series""; ""1. Introduction""; ""2. Some Cantor-Lebesgue Type Theorems""; ""2.1. Square Summation""; ""2.2. Restrictedly Rectangular Summation""; ""2.3. Unrestrictedly Rectangular Summation""; ""2.4. Spherical Summation""; ""3. A Uniqueness Theorem for Unrestrictedly Rectangular Convergence""; ""4. A Uniqueness Theorem for Spherical Convergence""; ""5. Sets of Uniqueness under Spherical Summation""
""6. Questions about Square and Restricted Rectangular Uniqueness""""" 6.1. Three weak theorems""; ""6.2. Some conjectures""; ""6.3. Towards a counterexample""; ""7. Orthogonal Trigonometric Polynomials""; ""References""; ""Smooth interpolation of functions on Rn""; ""Problems in interpolation theory related to the almost everywhere convergence of Fourier series""; ""Lectures on Nehari's Theorem on the Polydisk""; ""The s-function and the exponential integral""