

Almost Periodic Type Functions And Ergodicity

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Almost Periodic Type Functions And

Motivation. There are several inequivalent definitions of almost periodic functions. The first was given by Harald Bohr. His interest was initially in finite Dirichlet series. In fact by truncating the series for the Riemann zeta function $\zeta(s)$ to make it finite, one gets finite sums of terms of the type $(+)$ $\zeta(s)$ with s written as $(\sigma + it)$ $\zeta(s)$ the sum of its real part σ and imaginary part t .

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Almost periodic function - Wikipedia

Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces. Authors: Diagana, Toka Free Preview Introduces several new classes of functions as well as their applications to first, second, third, and higher-order differential equations; Contains material which has never before been presented in a book format ...

Almost Automorphic Type and Almost Periodic Type Functions ...

One direction is the broader study of functions of almost periodic type. Related this is the study of ergodicity. It shows that the ergodicity plays an important part in the theories of function spectrum, semigroup of bounded linear operators, and dynamical systems. The purpose of this book is to develop a theory of almost periodic type ...

Almost Periodic Type Functions and Ergodicity: Zhang ...

We also consider the corresponding classes of (\square, c) -almost periodic type functions depending on two variables and prove several related composition principles. Using the established composition ...

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Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces, Hardcover by Diagana, Toka, ISBN 331900848X, ISBN-13 9783319008486, Brand New, Free shipping in the US This book presents a comprehensive introduction to concepts of almost periodicity, asymptotic almost periodicity, almost automorphy, asymptotic almost automorphy ...

Almost Automorphic Type and Almost Periodic Type Functions ...

$f = 1 + \dots$: The collection of all asymptotically almost periodic functions will be denoted by $AAP(\mathbb{R} + : X)$: The concept of almost periodicity (respectively, almost automorphy, pseudo-almost periodicity, and pseudo-almost automorphy) in the Lebesgue space with variable exponent $L_p(x)(I; X)$ was first introduced and studied by Diagana and Zitane [6, 7].

Almost Periodic and Asymptotically Almost Periodic Type ...

The theory of almost periodic functions was introduced in the literature around 1924–1926 with the pioneering work of the Danish mathematician Bohr [25]. A decade later, various significant...

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One direction is the broader study of functions of almost periodic type. Related this is the study of ergodicity. It shows that the ergodicity plays an important part in the theories of function

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spectrum, semigroup of bounded linear operators, and dynamical systems. The purpose of this book is to develop a theory of almost periodic type ...

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periodic type functions, Bohr B-almost periodic type functions, composition principles, abstract Volterra integro-differential equations. Marko Kostić is partially supported by grant 451-03 ...

(PDF) Multi-dimensional almost periodic type functions and ...

We also analyze uniformly recurrent functions, generalized almost automorphic functions and apply our results in the qualitative analysis of solutions of inhomogeneous abstract integro-differential inclusions. We present plenty of illustrative examples, results of independent interest, questions and unsolved problems.

Almost periodic type functions and densities

From Tales. Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces - Toka Diagana - 9783319008493

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Almost Automorphic Type and Almost Periodic Type Functions ...

In this paper, we analyze multi-dimensional Bohr (\mathcal{B}, c) -almost periodic type functions. The main structural characterizations for the introduced classes of Bohr (\mathcal{B}, c) -almost periodic type functions are established. Several applications of our abstract theoretical results to the abstract Volterra integro-differential equations in Banach spaces are provided, as well.

Multi-dimensional \mathcal{C} -almost periodic type functions and ...

In this paper, we analyze multi-dimensional $(\mathbb{R}_X, \mathcal{B})$ -almost periodic type functions and multi-dimensional Bohr \mathcal{B} -almost periodic type functions. The main structural characterizations and composition principles for the introduced classes of almost periodic functions are established. Several applications of our abstract theoretical results to the abstract ...

Multi-dimensional almost periodic type functions and ...

In this paper, we analyze multi-dimensional Bohr (\mathcal{B}, c) -almost periodic type

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functions. The main structural characterizations for the introduced classes of Bohr (\mathcal{B},c) -almost periodic type functions are established. Several applications of our abstract theoretical results to the abstract Volterra integro-differential equations in Banach spaces are provided, as well.

Multi-dimensional \mathcal{B} -almost periodic type functions and ...

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[PDF] Almost Periodic Functions And Functional Equations ...

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Almost Periodic Type Functions and Ergodicity

Almost periodic type functions. Fourier series. Parseval's equality. 1. Introduction Let H be a

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complex Hilbert space and let $C(\mathbb{R}, H)$ denote the space of bounded continuous H -valued functions from \mathbb{R} to H with a supremum norm. If $H = \mathbb{C}$, the complex numbers, we will omit H from our notations, for example, we write $C(\mathbb{R})$ for $C(\mathbb{R}, H)$.

Two unsolved problems on almost periodic type functions ...

The theory of almost-periodic functions with complex values, created by H. Bohr [1] in his two classical papers published in Acta Mathematica in 1925 and 1926, has been developed by many authors and has had note worthy applications: we recall the works of Weyl, De la Vallee Poussin, Bochner, Stepanov, Wiener, Besicovic, Favard, Delsarte, Maak, Bogoliubov, Levitan.

Almost Periodic Functions And Functional Equations ...

The theory of almost periodic functions was first developed by the Danish mathematician H. Bohr during 1925-1926. Then Bohr's work was substantially extended by S. Bochner, H. Weyl, A. Besicovitch, J. Favard, J. von Neumann, V. V. Stepanov, N. N. Bogolyubov, and others. Generalization of the classical theory of almost periodic functions has been taken in several directions. One direction is ...