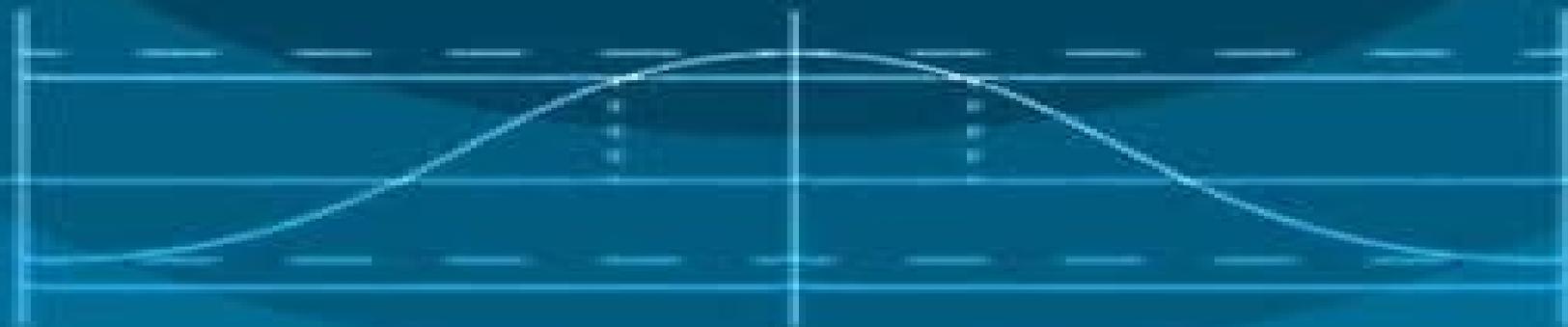


# Almost PERIODIC FUNCTIONS

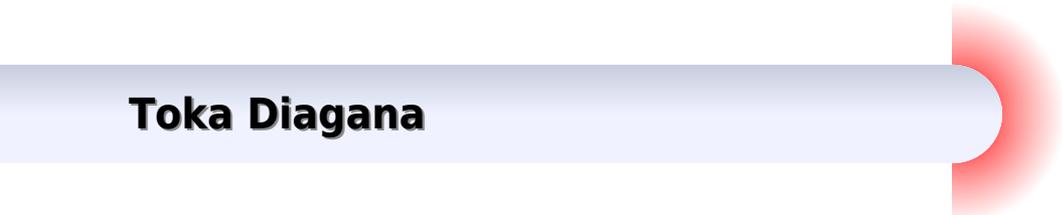


**HARALD BOHR**

Translated by  
**Harvey Cohn**

# Almost Periodic Functions

**Toka Diagana**



## **Almost Periodic Functions:**

**Almost Periodic Functions** Harald Bohr, 2018-08-02 Starting with a discussion of periodic functions this groundbreaking exposition advances to the almost periodic case An appendix covers the almost periodic functions of a complex variable 1947 edition

**Almost-periodic Functions in Abstract Spaces** Samuel Zaidman, 1985 This research not presents recent results in the field of almost periodicity The emphasis is on the study of vector valued almost periodic functions and related classes such as asymptotically almost periodic or almost automorphic functions Many examples are given and applications are indicated The first three chapters form a self contained introduction to the study of continuity derivability and integration in locally convex or Banach spaces The remainder of the book is devoted to almost periodicity and related topics The functions are defined on  $\mathbb{R}$   $\mathbb{R}^n$  or an abstract group the range is a Banach or a Hilbert space Although treatment of the material related to pure mathematics the theory has many applications in the area of abstract differential equations

Almost Periodic Functions Harald Bohr, 1965\*

**Almost Periodic Type Functions and Ergodicity** Zhang Chuanyi, 2003-06-30 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 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 functions and ergodicity with applications in particular to our interest in the theory of differential equations functional differential equations and abstract evolution equations The author selects these topics because there have been many excellent books on almost periodic functions and relatively few books on almost periodic type and ergodicity The author also wishes to reflect new results in the book during recent years The book consists of four chapters In the first chapter we present a basic theory of four almost periodic type functions Section 1.1 is about almost periodic functions To make the reader easily learn the almost periodicity we first discuss it in scalar case After studying a classical theory for this case we generalize it to finite dimensional vector valued case and finally to Banach valued including Hilbert valued situation

**Almost-Periodic Functions and Functional Equations** L. Amerio, G. Prouse, 2013-11-11 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 This subject has been widely treated in the monographs by Bohr 2 Favard 1 Besicovic 1 Maak 1 Levitan 1 Cinquini 1 Corduneanu 1 2 An important class of almost periodic functions was studied at the beginning of the century by Bohr and Esclangon Bohr s theory has been extended by

Muckenhoupt 1 in a particular case and subsequently by Bochner 1 and by Bochner and Von Neumann 1 to very general abstract spaces The extension to Banach spaces is in particular of great interest in view of the fundamental importance of these spaces in theory and application

**Almost Periodic Type Functions and Ergodicity** Zhang Chuanyi,2013-09-14

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 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 functions and ergodicity with applications in particular to our interest in the theory of differential equations functional differential equations and abstract evolution equations The author selects these topics because there have been many excellent books on almost periodic functions and relatively few books on almost periodic type and ergodicity The author also wishes to reflect new results in the book during recent years The book consists of four chapters In the first chapter we present a basic theory of almost periodic type functions Section 1 1 is about almost periodic functions To make the reader easily learn the almost periodicity we first discuss it in scalar case After studying a classical theory for this case we generalize it to finite dimensional vector valued case and finally to Banach valued including Hilbert valued situation

Selected Topics in Almost Periodicity Marko Kostić,2021-11-22 Covers uniformly recurrent solutions and almost periodic solutions of abstract Volterra integro differential equations as well as various generalizations of almost periodic functions in Lebesgue spaces with variable coefficients Treats multi dimensional almost periodic type functions and their generalizations in adequate detail

Almost Periodic Functions C. Corduneanu,Viorel Barbu,1989 From the Preface The purpose of our book is to provide an overall view of all the basic features of almost periodic functions in the various meanings this term has acquired in modern research as well as the many applications of such functions This feature of the book should of course make it useful to those readers who are interested in the connections that exist between theory pure of almost periodic functions and such areas of application as the theory of ordinary differential equations and partial differential equations Several other areas of application are also indicated together with an abundance of references From the Preface The Bibliographical Notes at the end of almost every chapter have been added to in this second edition Completely new is Chapter II 3 which is devoted to a relatively new class of almost periodic functions random functions almost periodic in probability It is certain that these functions will find many applications in the theory of stochastic functional equations

*Weakly Almost Periodic Functions on Semigroups* R. B. Burckel,1970

*Almost Periodic and Almost Automorphic Functions in Abstract Spaces* Gaston M. N'Guérékata,2021-05-28

This book presents the foundation of the theory of almost automorphic functions in abstract spaces and the theory of almost

periodic functions in locally and non locally convex spaces and their applications in differential equations Since the publication of *Almost automorphic and almost periodic functions in abstract spaces* Kluwer Academic Plenum 2001 there has been a surge of interest in the theory of almost automorphic functions and applications to evolution equations Several generalizations have since been introduced in the literature including the study of almost automorphic sequences and the interplay between almost periodicity and almost automorphic has been exposed for the first time in light of operator theory complex variable functions and harmonic analysis methods As such the time has come for a second edition to this work which was one of the most cited books of the year 2001 This new edition clarifies and improves upon earlier materials includes many relevant contributions and references in new and generalized concepts and methods and answers the longtime open problem What is the number of almost automorphic functions that are not almost periodic in the sense of Bohr Open problems in non locally convex valued almost periodic and almost automorphic functions are also indicated As in the first edition materials are presented in a simplified and rigorous way Each chapter is concluded with bibliographical notes showing the original sources of the results and further reading

***Almost Periodic Functions***, 1952     **Integration of Asymptotically Almost Periodic Functions and Weak Asymptotic Almost Periodicity** W. M. Ruess, William Hunley Summers, 1989     *Almost Periodic Differential Equations* A.M. Fink, 2006-11-15     *Almost Periodic Oscillations and Waves* Constantin Corduneanu, 2009-04-29 This text is well designed with respect to the exposition from the preliminary to the more advanced and the applications interwoven throughout It provides the essential foundations for the theory as well as the basic facts relating to almost periodicity In six structured and self contained chapters the author unifies the treatment of various classes of almost periodic functions while uniquely addressing oscillations and waves in the almost periodic case This is the first text to present the latest results in almost periodic oscillations and waves The presentation level and inclusion of several clearly presented proofs make this work ideal for graduate students in engineering and science The concept of almost periodicity is widely applicable to continuum mechanics electromagnetic theory plasma physics dynamical systems and astronomy which makes the book a useful tool for mathematicians and physicists

***Almost Periodic Functions and Differential Equations*** B. M. Levitan, V. V. Zhikov, 1982-12-02     *A New Definition of Almost Periodic Functions* Norbert Wiener, 19??     *Almost Periodic Functions* A. S. Besicovitch, 1954     **Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces** Toka Diagana, 2013-08-13 This book presents a comprehensive introduction to the concepts of almost periodicity asymptotic almost periodicity almost automorphy asymptotic almost automorphy pseudo almost periodicity and pseudo almost automorphy as well as their recent generalizations Some of the results presented are either new or else cannot be easily found in the mathematical literature Despite the noticeable and rapid progress made on these important topics the only standard references that currently exist on those new classes of functions and their applications are still scattered research articles One of the main objectives of this book is to close that gap The prerequisites

for the book is the basic introductory course in real analysis Depending on the background of the student the book may be suitable for a beginning graduate and or advanced undergraduate student Moreover it will be of a great interest to researchers in mathematics as well as in engineering in physics and related areas Further some parts of the book may be used for various graduate and undergraduate courses

**Almost Automorphic and Almost Periodic Functions in Abstract Spaces** Gaston M. N'Guérékata,2013-04-17 Almost Automorphic and Almost Periodic Functions in Abstract Spaces introduces and develops the theory of almost automorphic vector valued functions in Bochner s sense and the study of almost periodic functions in a locally convex space in a homogenous and unified manner It also applies the results obtained to study almost automorphic solutions of abstract differential equations expanding the core topics with a plethora of groundbreaking new results and applications For the sake of clarity and to spare the reader unnecessary technical hurdles the concepts are studied using classical methods of functional analysis

**Pseudo Almost Periodic Functions in Banach Spaces** Toka Diagana,2007

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