

Gaston M. N'Guérékata

# Almost Periodic and Almost Automorphic Functions in Abstract Spaces

*Second Edition*

 Springer

# Almost Automorphic And Almost Periodic Functions In Abstract Spaces

**Marko Kostić**



## **Almost Automorphic And Almost Periodic Functions In Abstract Spaces:**

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 Automorphic and Almost Periodic Functions in Abstract Spaces* Gaston M.

N'Guérékata, 2014-01-15 **Almost Automorphic and Almost Periodic Functions in Abstract Spaces** Gaston M. N'Guérékata, 2001-11-30 *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 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-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  $\mathbb{R}^n$  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 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

**Almost Periodicity and Almost Automorphy** Abdallah Afoukal,Brahim Es-sebbar,Khalil Ezzinbi,Gaston Mandata N'Guérékata,2025-03-03 When we study differential equations in Banach spaces whose coefficients are linear unbounded operators we feel that we are working in ordinary differential equations however the fact that the operator coefficients are unbounded makes things quite different from what is known in the classical case Examples or applications for such equations are naturally found in the theory of partial differential equations More specifically if we give importance to the time variable at the expense of the spatial variables we obtain an ordinary differential equation with respect to the variable which was put in evidence Thus for example the heat or the wave equation gives rise to ordinary differential equations of this kind Adding boundary conditions can often be translated in terms of considering solutions in some convenient functional Banach space The theory of semigroups of operators provides an elegant approach to study this kind of systems Therefore we can frequently guess or even prove theorems on differential equations in Banach spaces looking at a corresponding pattern in finite dimensional ordinary differential equations

**Selected Topics in Almost Periodicity** Marko Kostić,2021-11-22 Covers uniformly recurrent solutions and  $c$  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 and Almost Automorphic Solutions to Integro-Differential Equations** Marko Kostić,2019-05-06 This book discusses almost periodic and almost automorphic solutions to abstract integro differential Volterra equations that

are degenerate in time and in particular equations whose solutions are governed by degenerate solution operator families with removable singularities at zero It particularly covers abstract fractional equations and inclusions with multivalued linear operators as well as abstract fractional semilinear Cauchy problems

**Dynamic Equations and Almost Periodic Fuzzy Functions on Time Scales** Chao Wang, Ravi P. Agarwal, 2022-09-20 This book systematically establishes the almost periodic theory of dynamic equations and presents applications on time scales in fuzzy mathematics and uncertainty theory The authors introduce a new division of fuzzy vectors depending on a determinant algorithm and develop a theory of almost periodic fuzzy multidimensional dynamic systems on time scales Several applications are studied in particular a new type of fuzzy dynamic systems called fuzzy  $q$  dynamic systems i e fuzzy quantum dynamic systems is presented The results are not only effective on classical fuzzy dynamic systems including their continuous and discrete situations but are also valid for other fuzzy multidimensional dynamic systems on various hybrid domains In an effort to achieve more accurate analysis in real world applications the authors propose a number of uncertain factors in the theory As such fuzzy dynamical models interval valued functions differential equations fuzzy valued differential equations and their applications to dynamic equations on time scales are considered

*Trends in African Diaspora Mathematics Research*, 2007 The African Diaspora presents mathematical research of highest rank It offers a forum for mathematical research with some emphasis on the contributions of all African mathematicians and the rich connections between all African universities and those of other continents This includes the Denjoy integral equivalent cohomology semi linear equations rational approximants automorphic solutions and characterisations of multivariate exponential families

**Metrical Almost Periodicity and Applications to Integro-Differential Equations** Marko Kostić, 2023-06-06 The theory of almost periodic functions is a very active field of research for scholars This research monograph analyzes various classes of multi dimensional metrically almost periodic type functions with values in complex Banach spaces We provide many applications of our theoretical results to the abstract Volterra integro differential inclusions in Banach spaces

[Advanced Topics On Semilinear Evolution Equations](#) Mouffak Benchohra, Gaston Mandata N'guerekata, Abdelkrim Salim, 2025-01-07 Differential evolution equations serve as mathematical representations that capture the progression or transformation of functions or systems as time passes Currently differential equations continue to be an active and thriving area of study with continuous advancements in mathematical methodologies and their practical applications spanning diverse fields such as physics engineering and economics In the late 20th century the notion of Differential Evolution Equations emerged as a distinct field applied to optimization and machine learning challenges Evolution equations hold immense importance in numerous realms of applied mathematics and have experienced notable prominence in recent times This book delves into the study of several classes of equations aiming to investigate the existence of mild and periodic mild solutions and their properties such as approximate controllability complete controllability and attractivity under various conditions By examining diverse problems involving second order semilinear evolution

equations differential and integro differential equations with state dependent delay random effects and functional differential equations with delay and random effects we hope to contribute to the advancement of mathematical knowledge and provide researchers academicians and students with a solid foundation for further exploration in this field Throughout this book we explore different mathematical frameworks employing Frchet spaces and Banach spaces to provide a comprehensive analysis Our investigation extends beyond traditional solutions encompassing the study of asymptotically almost automorphic mild solutions periodic mild solutions and impulsive integro differential equations These topics shed light on the behavior of equations in both bounded and unbounded domains offering valuable insights into the dynamics of functional evolution equations

Almost Periodic Type Solutions Marko Kostić, 2025-03-03 Maybe for the first time in the existing literature we investigate here the almost periodic type solutions to the abstract Volterra difference equations depending on several variables We also investigate the generalized almost periodic type sequences and their applications in a rather detailed manner as well as many new important spaces of metrically generalized almost periodic type spaces of sequences and functions We essentially apply some results from the theory of  $C$  regularized solution operator families to the abstract Volterra integro differential difference equations contributing also to the theory of fractional calculus and fractional differential equations The theory of abstract Volterra integro differential equations and the theory of abstract Volterra difference equations are very attractive fields of research of many authors The almost periodic features and the asymptotically almost periodic features of solutions to the abstract Volterra differential difference equations in Banach spaces have been sought in many research articles published by now The main aim of this monograph is to continue the work collected in my monographs published with W de Gruyter recently by providing several new results about the existence and uniqueness of almost periodic type solutions to the abstract Volterra integro differential difference equations which could be solvable or unsolvable with respect to the highest derivative order We would like to particularly emphasize that this is probably the first research monograph devoted to the study of almost periodic type solutions to the abstract Volterra difference equations depending on several variables We also consider here many new important spaces of metrically generalized almost periodic type spaces of sequences and functions and their almost automorphic analogues It is also worth noting that this is probably the first research monograph which concerns the generalized almost periodic type sequences and their applications in a rather detailed manner for the first time in the existing literature we also present here some applications of results from the theory of  $C$  regularized solution operator families to the abstract Volterra difference equations Fractional calculus and discrete fractional calculus are rapidly growing fields of theoretical and applied mathematics which are incredibly important in modeling of various real phenomena appearing in different fields like aerodynamics rheology interval valued systems chaotic systems with short memory and image encryption and discrete time recurrent neural networks Many important research results regarding the abstract fractional differential equations and the

abstract fractional difference equations in Banach spaces have recently been obtained by a great number of authors from the whole world In this monograph we also contribute to the theories of discrete fractional calculus fractional differential difference equations and multi dimensional Laplace transform Although the monograph is far from being complete we have decided to quote almost eight hundred and fifty research articles which could be of some importance to the interested readers for further developments of the theory established here

**Partial Differential Equations and Applications** Toka Diagana, Khalil Ezzinbi, Stanislas Ouaro, 2023-05-11 This volume convenes selected peer reviewed works presented at the Partial Differential Equations and Applications Colloquium in Honor of Prof Hamidou Toure that was held at the University Ouaga 1 Ouagadougou Burkina Faso November 5 9 2018 Topics covered in this volume include boundary value problems for difference equations differential forms in global analysis functional differential equations and stability in the context of PDEs Studies on SIR and SIRS epidemic models of special interest to researchers in epidemiology are also included This volume is dedicated to Dr Hamidou Tour a Research Professor at the University of Ouaga 1 Dr Tour has made important scientific contributions in many fields of mathematical sciences Dr Tour got his PhD 1994 from the University of Franche Comte of Besan on France and is one of the key leaders and mentor of several generations of mathematicians in French speaking Africa This conference was purposely held in Ouagadougou in reverence of Dr Tour s efforts for the development of mathematics in Africa since the beginning of his career in early 1982 to the current days

Topics in Abstract Differential Equations II S D Zaidman, 1995-03-20 This looks at a new branch of operator theory and partial differential equations which in recent years has become a rapidly growing field of mathematics Well posed problems are studied in the context of the theory of operator groups and semigroups as well as the framework of time dependent evolution equations Non well posed problems are also considered

**Theory of Translation Closedness for Time Scales** Chao Wang, Ravi P. Agarwal, Donal O' Regan, Rathinasamy Sakthivel, 2020-05-05 This monograph establishes a theory of classification and translation closedness of time scales a topic that was first studied by S Hilger in 1988 to unify continuous and discrete analysis The authors develop a theory of translation function on time scales that contains piecewise almost periodic functions piecewise almost automorphic functions and their related generalization functions e g pseudo almost periodic functions weighted pseudo almost automorphic functions and more Against the background of dynamic equations these function theories on time scales are applied to study the dynamical behavior of solutions for various types of dynamic equations on hybrid domains including evolution equations discontinuous equations and impulsive integro differential equations The theory presented allows many useful applications such as in the Nicholson s blowflies model the Lasota Wazewska model the Keynesian Cross model in those realistic dynamical models with a more complex hybrid domain considered under different types of translation closedness of time scales and in dynamic equations on mathematical models which cover neural networks This book provides readers with the theoretical background necessary for accurate mathematical modeling in physics chemical technology

population dynamics biotechnology and economics neural networks and social sciences      **Nonautonomous Dynamics**

David N. Cheban, 2020-01-22 This book emphasizes those topological methods of dynamical systems and theories that are useful in the study of different classes of nonautonomous evolutionary equations The content is developed over six chapters providing a thorough introduction to the techniques used in the Chapters III VI described by Chapter I II The author gives a systematic treatment of the basic mathematical theory and constructive methods for Nonautonomous Dynamics They show how these diverse topics are connected to other important parts of mathematics including Topology Functional Analysis and Qualitative Theory of Differential Difference Equations Throughout the book a nice balance is maintained between rigorous mathematics and applications ordinary differential difference equations functional differential equations and partial difference equations The primary readership includes graduate and PhD students and researchers in the field of dynamical systems and their applications control theory economic dynamics mathematical theory of climate population dynamics oscillation theory etc      *Advances in Neural Networks - ISNN 2014* Zhigang Zeng, Yangmin Li, Irwin King, 2014-11-28 The

volume LNCS 8866 constitutes the refereed proceedings of the 11th International Symposium on Neural Networks ISNN 2014 held in Hong Kong and Macao China on November December 2014 The 71 revised full papers presented were carefully reviewed and selected from 119 submissions These papers cover all major topics of the theoretical research empirical study and applications of neural networks research as follows The focus is on following topics such as analysis modeling and applications

Monotone Nonautonomous Dynamical Systems David N. Cheban, 2024-07-15 The monograph presents ideas and methods developed by the author to solve the problem of existence of Bohr Levitan almost periodic respectively almost recurrent in the sense of Bebutov almost automorphic Poisson stable solutions and global attractors of monotone nonautonomous differential difference equations Namely the text provides answers to the following problems 1 Problem of existence of at least one Bohr Levitan almost periodic solution for cooperative almost periodic differential difference equations 2 Problem of existence of at least one Bohr Levitan almost periodic solution for uniformly stable and dissipative monotone differential equations I U Bronshtein's conjecture 1975 3 Problem of description of the structure of the global attractor for monotone nonautonomous dynamical systems 4 The structure of the invariant minimal sets and global attractors for one dimensional monotone nonautonomous dynamical systems 5 Asymptotic behavior of monotone nonautonomous dynamical systems with a first integral Poisson stable motions convergence asymptotically Poisson stable motions and structure of the Levinson center compact global attractor of dissipative systems 6 Existence and convergence to Poisson stable motions of monotone sub linear nonautonomous dynamical systems This book will be interesting to the mathematical community working in the field of nonautonomous dynamical systems and their applications population dynamics oscillation theory ecology epidemiology economics biochemistry etc The book should be accessible to graduate and PhD students who took courses in real analysis including the elements of functional analysis general topology and with general background in



dynamical systems and qualitative theory of differential difference equations

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