

# TOPICS IN ALMOST AUTOMORPHY

Gaston M. N'Guérékata

# Topics In Almost Automorphy

**M Woodhall**



## Topics In Almost Automorphy:

*Topics in Almost Automorphy* Gaston M. N'Guérékata, 2007-07-10 Since the publication of our first book 80 there has been a real resurgence of interest in the study of almost automorphic functions and their applications 16 17 28 29 30 31 32 40 41 42 46 51 58 74 75 77 78 79 New methods method of invariant spaces uniform spectrum and new concepts almost periodicity and almost automorphy in fuzzy settings have been introduced in the literature The range of applications include at present linear and nonlinear evolution equations integro differential and functional differential equations dynamical systems etc It has become imperative to take a bearing of the main steps of the theory That is the main purpose of this monograph It is intended to inform the reader and pave the road to more research in the field It is not a self contained book In fact 80 remains the basic reference and fundamental source of information on these topics Chapter 1 is an introductory one However it contains also some recent contributions to the theory of almost automorphic functions in abstract spaces VIII Preface Chapter 2 is devoted to the existence of almost automorphic solutions to some linear and nonlinear evolution equations It contains many new results Chapter 3 introduces to almost periodicity in fuzzy settings with applications to differential equations in fuzzy settings It is based on a work by B Bede and S G Gal 40

**Topics on Stability and Periodicity in Abstract Differential Equations** James Hetao Liu, Gaston M. N'Guérékata, Nguyen Van Minh, 2008 This book presents recent methods of study on the asymptotic behavior of solutions of abstract differential equations such as stability exponential dichotomy periodicity almost periodicity and almost automorphy of solutions The chosen methods are described in a way that is suitable to those who have some experience with ordinary differential equations The book is intended for graduate students and researchers in the related areas

Leading-edge Research on Evolution Equations Gaston M. N'Guérékata, 2008 This book presents high quality research from around the world on the theory and methods of linear or nonlinear evolution equations as well as their further applications Equations dealing with the asymptotic behavior of solutions to evolution equations are included The book also covers degenerate parabolic equations abstract differential equations comments on the Schrodinger equation solutions in Banach spaces periodic and quasi periodic solutions concave Lagrangian systems and integral equations

Semilinear Evolution Equations and Their Applications Toka Diagana, 2018-10-23 This book which is a continuation of *Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces* presents recent trends and developments upon fractional first and second order semilinear difference and differential equations including degenerate ones Various stability uniqueness and existence results are established using various tools from nonlinear functional analysis and operator theory such as semigroup methods Various applications to partial differential equations and the dynamic of populations are amply discussed This self contained volume is primarily intended for advanced undergraduate and graduate students post graduates and researchers but may also be of interest to non mathematicians such as physicists and theoretically oriented engineers It can also be used as a graduate text on

evolution equations and difference equations and their applications to partial differential equations and practical problems arising in population dynamics For completeness detailed preliminary background on Banach and Hilbert spaces operator theory semigroups of operators and almost periodic functions and their spectral theory are included as well The Golden Anniversary Celebration of the National Association of Mathematicians Omayra Ortega, Emille Davie Lawrence, Edray Herber Goins, 2020-12-10 This volume is put together by the National Association of Mathematicians to commemorate its 50th anniversary The articles in the book are based on lectures presented at several events at the Joint Mathematics Meeting held from January 16 19 2019 in Baltimore Maryland including the Claytor Woodard Lecture as well as the NAM David Harold Blackwell Lecture which was held on August 2 2019 in Cincinnati Ohio **Advances in Neural Networks - ISSN 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 ISSN 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 The Journal of Integral Equations and Applications, 2016 Journal of Nonlinear and Convex Analysis, 2007 **Differential and Integral Equations**, 2008 *Air Force Research Resumés*, *Commentationes mathematicae*, 2005 Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.), 1963 The Proceedings of the National Academy of Sciences PNAS publishes research reports commentaries reviews colloquium papers and actions of the Academy PNAS is a multidisciplinary journal that covers the biological physical and social sciences **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 *The Punjab University Journal of Mathematics*, 2007 **OAR**, 1967 **Mathematical Reviews**, 2005 **Nil Bohr-Sets and Almost Automorphy of Higher Order** Wen Huang, Song Shao, Xiangdong Ye, 2016-04-26 Two closely related topics higher order Bohr sets and higher order almost automorphy are

investigated in this paper Both of them are related to nilsystems In the first part the problem which can be viewed as the higher order version of an old question concerning Bohr sets is studied for any  $d \in \mathbb{N}$  does the collection of  $n \in \mathbb{Z}$  such that  $n \in S$  for  $d$  consecutive values of  $n$  with  $S$  syndetic coincide with that of  $n \in S$  for  $d$  consecutive values of  $n$  In the second part the notion of  $d$  step almost automorphic systems with  $d \in \mathbb{N}$  is introduced and investigated which is the generalization of the classical almost automorphic ones American Book Publishing Record ,2005 **Air Force Research Resumés** ,1966 **Air Force Research Resumés** United States. Air Force. Office of Aerospace Research,1966

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