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# Almost Periodic Solutions of Differential Equations in Banach Spaces

Y. Hino, T. Naito, Nguyen Van Minh and Jong Son Shin

# <u>Almost Periodic Solutions Of Differential Equations In</u> <u>Banach Spaces</u>

**Clifford Lane** 

# **Almost Periodic Solutions Of Differential Equations In Banach Spaces:**

Almost Periodic Solutions of Differential Equations in Banach Spaces Yoshiyuki Hino, Toshiki Naito, Nguyen Van Minh, Jong Son Shin, 2001-10-25 This monograph presents recent developments in spectral conditions for the existence of periodic and almost periodic solutions of inhomogenous equations in Banach Spaces Many of the results represent significant advances in this area In particular the authors systematically present a new approach based on the so called evolution semigroups with an original decomposition technique. The book also extends classical techniques such as fixed points and stability methods to abstract functional differential equations with applications to partial functional differential equations Almost Periodic Solutions of Differential Equations in Banach Spaces will appeal to anyone working in mathematical analysis **Periodic Solutions of Differential Equations in Banach Spaces** Yoshiyuki Hino, 2001-05-01 The authors present recent developments in spectral conditions for the existence of periodic and almost periodic solutions of inhomogenous equations in Banach Spaces Many of the results represent significant advances in this area In particular a new approach based on the so called evolution semigroups with an original decomposition technique is systematically presented. The monograph also includes extensions of classical methods such as fixed points and stability methods to abstract functional differential equations with applications to partial functional differential equations Existence and Stability of Almost Periodic Solutions of Differential Equations in Banach Spaces C. T. Taam, WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER, 1964 Conditions are obtained for certain nonlinear differential equations in a Banach space to possess a unique almost periodic solution which is positively asymptotically stable and negatively unstable. The streatment rests mainly on careful study of certain mappings between the space of almost periodic functions and the space of generalized almost periodic functions Author Pseudo Almost Periodic Functions in Banach Spaces Toka Diagana, 2007 Almost Periodic Solutions of Impulsive Differential Equations Gani T. Stamov, 2012-03-09 In the present book a systematic exposition of the results related to almost periodic solutions of impulsive differential equations is given and the potential for their application Selected Topics in Almost Periodicity Marko Kostić, 2021-11-22 Covers uniformly recurrent solutions and is illustrated 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 Differential Equations** A.M. Fink, 2006-11-15 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 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 essenitally 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 **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 Leading-edge Research on Evolution Equations Gaston M. N'Guerekata, 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 Lagragian systems and integral equations Stability of Linear Systems: Some Aspects of Kinematic Similarity Harris, 1980-10-02 Stability of Linear Systems Some Aspects of Kinematic Similarity 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 Advances in Differential and Difference Equations with Applications 2020 Dumitru Baleanu, 2021-01-20 It is very well known that differential equations are related with the rise of physical science in the last several decades and they are used successfully for models of real world problems in a variety of fields from several disciplines Additionally difference equations represent the discrete analogues of differential equations These types of equations started to be used intensively during the last several years for their multiple applications particularly in complex chaotic behavior A certain class of differential and related difference equations is represented by their respective fractional forms which have been utilized to better describe non local phenomena appearing in all branches of science and engineering The purpose of this book is to present some common results given by mathematicians together with physicists engineers as well as other scientists for whom differential and difference equations are valuable research tools The reported results can be used by researchers and academics working in both pure and applied differential equations 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 **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

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 in the field of dynamical systems and their applications control theory economic dynamics mathematical theory of climate population dynamics oscillation theory etc

Stability and Almost Periodic Solutions in Functional

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Tarō Yoshizawa, 1978

Almost Periodic Oscillations the most common oscillations in applications and the most intricate for mathematical analysis Prof Akhmet s lucid and rigorous examination proves these

oscillations are a regular component of chaotic attractors. The book focuses on almost periodic functions first of all as Stable asymptotically solutions of differential equations of different types presumably discontinuous and secondly as non isolated oscillations in chaotic sets Finally the author proves the existence of Almost Periodic Oscillations asymptotic and bi asymptotic by asymptotic equivalence between systems The book brings readers attention to contemporary methods for considering oscillations as well as to methods with strong potential for study of chaos in the future Providing three powerful instruments for mathematical research of oscillations where dynamics are observable and applied the book is ideal for engineers as well as specialists in electronics computer sciences robotics neural networks artificial networks and biology Distinctively combines results and methods of the theory of differential equations with thorough investigation of chaotic dynamics with almost periodic ingredients Provides all necessary mathematical basics in their most developed form negating the need for any additional sources for readers to start work in the area Presents a unique method of investigation of discontinuous almost periodic solutions in its unified form employed to differential equations with different types of discontinuity Develops the equivalence method to its ultimate effective state such that most important theoretical problems **Integro-Differential Equations** Mouffak and practical applications can be analyzed by the method Benchohra, Abdelkrim Salim, Yong Zhou, 2024-08-19 This book delves into semilinear evolution equations impulsive differential equations and integro differential equations with different types of delay The main objective is to investigate the existence of solutions and explore their approximate controllability complete controllability and attractivity The study involves boundary conditions nonlocal conditions and impulsive conditions. The analysis presented in this book goes beyond traditional solutions and encompasses the study of solutions that are asymptotically almost automorphic and integro differential equations with impulsive effects in both bounded and unbounded domains. The book also contains applications to nuclear physics elementary particle physics chemical engineering and economics This book is intended for researchers and professionals in the field of mathematics physics and industrial engineering as well as advanced graduate students

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