

ON THE BOHR TRANSFORM OF ALMOST-PERIODIC SOLUTIONS FOR SOME DIFFERENTIAL EQUATIONS IN ABSTRACT SPACES

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ABSTRACT. We consider abstract differential equations of the form $u'(t) = Au(t) + f(t)$ or $u''(t) = Au(t) + f(t)$ in Banach spaces X , where $f(\cdot), \mathbb{R} \rightarrow X$ is almost-periodic, while A is a linear operator, $\mathfrak{D}(A) \subset X \rightarrow X$. If the solution $u(\cdot)$ is likewise almost-periodic, $\mathbb{R} \rightarrow X$, we establish connections between their Bohr-transforms, $\hat{u}(\lambda)$ and $\hat{f}(\lambda)$.

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1. Introduction. If $u(\cdot), \mathbb{R} \rightarrow X$ (a Banach space) is an ultraweak almost-periodic solution of the differential equation

$$u'(t) = Au(t) + f(t), \quad t \in \mathbb{R} \text{ (first order)} \quad (1.1)$$

or

$$u''(t) = Au(t) + f(t), \quad t \in \mathbb{R} \text{ (second order)} \quad (1.2)$$

with linear—not necessarily continuous—operator $A, \mathfrak{D}(A) \subset X \rightarrow X$, and with almost-periodic “forcing” term $f(\cdot), \mathbb{R} \rightarrow X$, then the Bohr transforms

$$\hat{f}(\lambda) = \lim_{T \rightarrow \infty} \frac{1}{T} \int_0^T e^{-i\lambda t} f(t) dt, \quad \hat{u}(\lambda) = \lim_{T \rightarrow \infty} \frac{1}{T} \int_0^T e^{-i\lambda t} u(t) dt, \quad (1.3)$$

will both exist, for all reals λ .

It appears that it is possible to establish a typical relationship between $\hat{u}(\lambda)$ and $\hat{f}(\lambda)$ which implies also connections between the (countable) sets

$$\Lambda_u = \{\lambda \in \mathbb{R}, \hat{u}(\lambda) \neq \emptyset\}, \quad \Lambda_f = \{\lambda \in \mathbb{R}, \hat{f}(\lambda) \neq \emptyset\}, \quad (1.4)$$

(the elements of Λ_u, Λ_f are the Fourier “exponents” of $u(\cdot), f(\cdot)$, resp.).

Some “historical” notes:

(i) In [7] we have (1.2) in a Hilbert space, with $A \geq \Theta$, and the solution is in the usual sense. One obtains the equality

$$(\lambda^2 + \tilde{A}) \hat{u}(\lambda) = -\hat{f}(\lambda), \quad \forall \lambda \in \mathbb{R}, \quad (1.5)$$

where \tilde{A} is a selfadjoint extension of A .

(ii) In [6] the equation is (1.1) and f is continuous almost-periodic in Stepanoff S^p -sense; the operator A is closed in X . One gets the equality

$$(i\lambda - A) \hat{u}(\lambda) = \hat{f}(\lambda). \quad (1.6)$$

Solution Sets Of Differential Equations In Abstract Spaces

**Vincenzo Ancona, Edoardo Ballico, Rosa
M Miro-Roig, Alessandro Silva**



Solution Sets Of Differential Equations In Abstract Spaces:

Solution Sets of Differential Equations in Abstract Spaces Robert Dragoni, Paolo Nistri, Pietro Zecca, Jack W Macki, 1996-04-03 This book presents results on the geometric topological structure of the solution set S of an initial value problem $x'(t) = f(t, x(t))$ when f is a continuous function with values in an infinite dimensional space A A comprehensive survey of existence results and the properties of S when S is a connected set a retract an acyclic set is presented The authors also survey results on the properties of S for initial value problems involving differential inclusions and for boundary value problems This book will be of particular interest to researchers in ordinary and partial differential equations and some workers in control theory

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Generalized Ordinary Differential Equations in Abstract Spaces and Applications will also earn a place in the libraries of advanced undergraduate students taking courses in the subject and hoping to move onto graduate studies [Solution Sets for Differential Equations and Inclusions](#) Smaïl Djebali, Lech Górniewicz, Abdelghani Ouahab, 2012-12-06 This monograph gives a systematic presentation of classical and recent results obtained in the last couple of years It comprehensively describes the methods concerning the topological structure of fixed point sets and solution sets for differential equations and inclusions Many of the basic techniques and results recently developed about this theory are presented as well as the literature that is disseminated and scattered in several papers of pioneering researchers who developed the functional analytic framework of this field over the past few decades Several examples of applications relating to initial and boundary value problems are discussed in detail The book is intended to advanced graduate researchers and instructors active in research areas with interests in topological properties of fixed point mappings and applications it also aims to provide students with the necessary understanding of the subject with no deep background material needed This monograph fills the vacuum in the literature regarding the topological structure of fixed point sets and its applications *Topological Structure of the Solution Set for Evolution Inclusions* Yong Zhou, Rong-Nian Wang, Li Peng, 2017-10-31 This book systematically presents the topological structure of solution sets and attractability for nonlinear evolution inclusions together with its relevant applications in control problems and partial differential equations It provides readers the background material needed to delve deeper into the subject and explore the rich research literature In addition the book addresses many of the basic techniques and results recently developed in connection with this theory including the structure of solution sets for evolution inclusions with m dissipative operators quasi autonomous and non autonomous evolution inclusions and control systems evolution inclusions with the Hille Yosida operator functional evolution inclusions impulsive evolution inclusions and stochastic evolution inclusions Several applications of evolution inclusions and control systems are also discussed in detail Based on extensive research work conducted by the authors and other experts over the past four years the information presented is cutting edge and comprehensive As such the book fills an important gap in the body of literature on the structure of evolution inclusions and its applications

Handbook of Differential Equations: Ordinary Differential Equations A. Canada, P. Drabek, A. Fonda, 2006-08-21 This handbook is the third volume in a series of volumes devoted to self contained and up to date surveys in the theory of ordinary differential equations written by leading researchers in the area All contributors have made an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wide audience These ideas faithfully reflect the spirit of this multi volume and hopefully it becomes a very useful tool for research learning and teaching This volume consists of seven chapters covering a variety of problems in ordinary differential equations Both pure mathematical research and real world

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