

# 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  $\hat{f}(\lambda)$ .

2000 Mathematics Subject Classification. 34C27, 34G10.

**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  $\lambda$ .

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  $\Lambda_u$ ,  $\Lambda_f$  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

**Vladislav V Kravchenko, Michael  
Shapiro**



## **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  $x' = f(t, x)$ ,  $x(0) = x_0$  when  $f$  is a continuous function with values in an infinite dimensional space. 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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