



Year: 2006

Vol.: 68

Fasc.: 3-4

Title: The set of pseudo solutions of the differential equation $x^{(m)} = f(t, x)$ in Banach spaces

Author(s): Ireneusz Kubiacyk and Aneta Sikorska-Nowak

In this paper we prove the existence theorem for the equation $x^{(m)} = f(t, x(t))$ in Banach spaces where f is weakly-weakly sequentially continuous. Moreover, we prove that the set of pseudo-solutions of our equation is compact and connected.

Address:

Ireneusz Kubiacyk
Faculty of Mathematics and Computer Science
Adam Mickiewicz University
Umultowska 87, 61-614 Poznań
Poland

Address:

Aneta Sikorska-Nowak
Faculty of Mathematics and Computer Science
Adam Mickiewicz University
Umultowska 87, 61-614 Poznań
Poland
E-mail: anetas@amu.edu.pl