QUADRATIC INTEGRAL EQUATIONS IN REFLEXIVE BANACH SPACE

HUSSEIN A.H. SALEM

Faculty of Sciences
Taibah University, Yanbu
Saudi Arabia

and

Department of Mathematics
Faculty of Sciences
Alexandria University, Egypt

e-mail: hssdina@Alex-sci.edu.eg

Abstract

This paper is devoted to proving the existence of weak solutions to some quadratic integral equations of fractional type in a reflexive Banach space relative to the weak topology. A special case will be considered.

Keywords and phrases: Pettis integral, fractional calculus, fixed point theorem, quadratic integral equation.

2000 Mathematics Subject Classification: 26A33.

References


doi:10.1017/S00049727000009953


Received 5 January 2009