Turkish Journal of Mathematics

Turkish Journal

Multiple Positive Solutions for Nonlinear Third-Order Boundary Value Problems in Banach Spaces

of

Mathematics

Keywords Authors



math@tubitak.gov.tr

Scientific Journals Home Page

Feng WANG School of Mathematics and Physics Jiangsu Polytechnic University Changzhou, Jiangsu 213164, P. R. CHINA e-mail: fengwang188@163.com Hai-hua LU School of Science Nantong University Nantong, Jiangsu 226019, P. R. CHINA e-mail: haihualu@ntu.edu.cn Fang ZHANG School of Mathematics and Physics Jiangsu Polytechnic University Changzhou, Jiangsu 213164, P. R. CHINA e-mail: zhangfang@tom.com

<u>Abstract:</u> This paper deals with the positive solutions of nonlinear boundary value problems in Banach spaces. By using fixed point index theory, some sufficient conditions for the existence of at least one or two positive solutions to boundary value problems in Banach spaces are obtained. An example illustrating the main results is given.

Key Words: Positive solutions; boundary value problem; Banach spaces; fixed point index.

Turk. J. Math., **33**, (2009), 55-63. Full text: <u>pdf</u> Other articles published in the same issue: <u>Turk. J. Math.,vol.33,iss.1</u>.