MULTIPLE PERIODIC SOLUTIONS FOR A FOURTH-ORDER DISCRETE HAMILTONIAN SYSTEM

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Abstract. By means of a three critical points theorem proposed by Brezis and Nirenberg and a general version of Mountain Pass Theorem, we obtain some multiplicity results for periodic solutions of a fourth-order discrete Hamiltonian system

\[ \Delta^4 u(t-2) + \nabla F(t, u(t)) = 0, \quad \text{for all } t \in \mathbb{Z}. \]

Full text

References


2010 Mathematics Subject Classification: 39A23.
Keywords: Discrete Hamiltonian systems; Periodic solutions; Critical points.

This work was supported by the National Natural Sciences Foundation of People’s Republic of China under Grant 10971183.

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Surveys in Mathematics and its Applications **5** (2010), 333 – 344
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