

Gu, Hua; An, Tianqing

Existence of infinitely many periodic solutions for second-order Hamiltonian systems. (English) [Zbl 1293.34055](#)

Electron. J. Differ. Equ. 2013, Paper No. 251, 10 p. (2013).

Summary: By using a variant of the fountain theorem, we study the existence of infinitely many periodic solutions for a class of superquadratic nonautonomous second-order Hamiltonian systems.

MSC:

[34C25](#) Periodic solutions to ordinary differential equations

[58E05](#) Abstract critical point theory (Morse theory, Lyusternik-Shnirel'man theory, etc.) in infinite-dimensional spaces

[37J45](#) Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods (MSC2010)

[58E50](#) Applications of variational problems in infinite-dimensional spaces to the sciences

Cited in **2** Documents

Keywords:

periodic solution; Hamiltonian systems; critical point; variational method

Full Text: [EMIS](#)