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The homotopy perturbation method for nonlinear oscillators with discontinuities. (English)

Zbl 1039.65052

Appl. Math. Comput. 151, No. 1, 287-292 (2004).

Summary: The homotopy perturbation method is applied to the nonlinear oscillators with discontinuities. Only one iteration leads to high accuracy of the solutions.

MSC:

65L05 Numerical methods for initial value problems involving ordinary differential equations

34A34 Nonlinear ordinary differential equations and systems

Cited in **1** Review
Cited in **289** Documents

Keywords:

homotopy perturbation method; nonlinear oscillator; numerical examples; discontinuities

Full Text: DOI

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