

Citation awards



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Homotopy-perturbation method for pure nonlinear differential equation

Author(s): Cveticanin, L (Cveticanin, L.)

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Times Cited: 113 (from Web of Science)

Cited References: 35 [view related records] Citation Map

Abstract: In this paper, the homotopy-perturbation method proposed by J.-H. He is adopted for solving pure strong nonlinear second-order differential equation. For the oscillatory differential equation the initial approximate solution is assumed in the form of Jacobi elliptic function and the forementioned method is used for obtaining of the approximate analytic solution. Two types of differential equations are considered: with strong cubic and strong quadratic nonlinearity. The obtained solution is compared with exact numerical one. The difference between these solutions is negligible for a long time period. The method is found to work extremely well in the examples, but the theoretical reasons are not yet clear. (c) 2005 Elsevier Ltd.

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KeyWords Plus: LINDSTEDT OSCILLATORS: DISCONTINU

Reprint Address: Cveticanin,

This article is a *Highly Cited Paper*It is within the most influential 1% of the world's publications in physics of 2006

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Title: Homotopy-perturbation method for pure nonlinear differential equation Author(s): Cveticanin L. Source: CHAOS SOLITONS & FRACTALS Volume: 30 Issue: 5 Pages: 1221-1230 DOI: 10.1016/j.chaos.2005.08.180 Publish Times Cited: 113 (from Web of Science) SS-F-X → Full Text [- View abstract] Title: The homotopy-perturbation method applied for solving complex-valued differential equations with strong cubic nonlinearity Author(s): Cveticanin L Source: JOURNAL OF SOUND AND VIBRATION Volume: 285 Issue: 4-5 Pages: 1171-1179 DOI: 10.1016/j.jsv.2004.10.026 Published: AUG 6 2005 Times Cited: 29 (from Web of Science) GS+F+X → Full Text [Wiew abstract] TITLE APPROXIMATE ANALYTICAL SOLUTIONS TO A CLASS OF NONLINEAR EQUATIONS WITH COMPLEX FUNCTIONS Author(s): CVETICANIN L Source; JOURNAL OF SOUND AND VIBRATION Volume; 157 Issue; 2 Pages; 289-302 DOI: 10.1016/0022-460X(92)90682-N Published; SEP 8 1992 Times Cited: 25 (from Web of Science) SS-F-X → Full Text Title: VIBRATIONS OF A TEXTILE MACHINE ROTOR Author(s): CVETICANIN L Source: JOURNAL OF SOUND AND VIBRATION Volume: 97 Issue: 2 Pages: 181-187 DOI: 10.1016/0022-460X(84)90317-1 Published: 1984 Times Cited: 19 (from Web of Science) GS.F.X → Full Text 77 Papers in the Web of Science Title: Analytic approach for the solution of the com Author(s): Cveticanin L 56 papers where she is the only author Source: PHYSICA A Volume: 297 Issue: 3-4 Pages: 34 She received almost 500 citations Times Cited: 18 (from Web of Science)

H index=11

SS-F-X → Full Text [Diew abstract]

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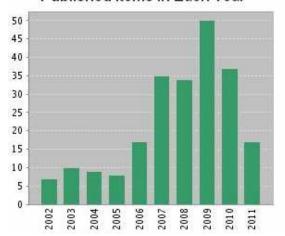
Stevo Stevic

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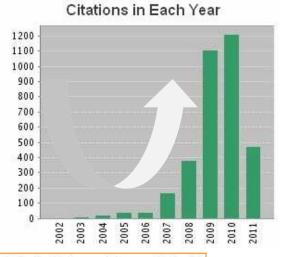
The 33rd most cited Mathematician of the past 10 years 43 of his papers are *Highly Cited Papers*They are within the 1% of the world's most influential Mathematics papers of the past decade



Published Items in Each Year



H index=31



Norm of weighted composition operators from Bloch space to H(mu)(infinity) on the unit ball

Author(s): Stevic, S (Stevic, Stevo)

Source: ARS COMBINATORIA Volume: 88 Pages: 125-127 Published: JUL 2008

Times Cited: 84 (from Web of Science)

Cited References: 12 [view related records]

His 2008 paper about calculating operator norms gathered citations immediately after its publication and quickly became a very fast breaking paper





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COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	97	5	Q1
MATHEMATICS, INTERDISCIPLINARY APPLICATIONS	93	1	Q1

