

Tarsicio BelÃ©ndez

List of Publications by Year in descending order

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37
papers

1,198
citations

430874

18
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-Form Exact Solutions for the Unforced Quintic Nonlinear Oscillator. <i>Advances in Mathematical Physics</i> , 2017, 2017, 1-14.	0.8	8
2	Exact solution for the unforced Duffing oscillator with cubic and quintic nonlinearities. <i>Nonlinear Dynamics</i> , 2016, 86, 1687-1700.	5.2	38
3	Solutions for Conservative Nonlinear Oscillators Using an Approximate Method Based on Chebyshev Series Expansion of the Restoring Force. <i>Acta Physica Polonica A</i> , 2016, 130, 667-678.	0.5	7
4	Nonlinear oscillator with power-form elastic-term: Fourier series expansion of the exact solution. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 134-148.	3.3	14
5	Exact and approximate solutions for the anti-symmetric quadratic truly nonlinear oscillator. <i>Applied Mathematics and Computation</i> , 2014, 246, 355-364.	2.2	1
6	Analytical Approximate Solutions for the Cubic-Quintic Duffing Oscillator in Terms of Elementary Functions. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-16.	0.9	14
7	APPROXIMATE ANALYTICAL SOLUTIONS FOR THE RELATIVISTIC OSCILLATOR USING A LINEARIZED HARMONIC BALANCE METHOD. <i>International Journal of Modern Physics B</i> , 2009, 23, 521-536.	2.0	12
8	Reply to "Comment on "Approximation for the large-angle simple pendulum period". <i>European Journal of Physics</i> , 2009, 30, L83-L86.	0.6	7
9	Approximation for a large-angle simple pendulum period. <i>European Journal of Physics</i> , 2009, 30, L25-L28.	0.6	30
10	Application of a modified He's homotopy perturbation method to obtain higher-order approximations to a nonlinear oscillator with discontinuities. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 601-610.	1.7	62
11	Solution for an anti-symmetric quadratic nonlinear oscillator by a modified He's homotopy perturbation method. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 416-427.	1.7	51
12	Approximate solutions of a nonlinear oscillator typified as a mass attached to a stretched elastic wire by the homotopy perturbation method. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 746-764.	5.1	28
13	Rational harmonic balance based method for conservative nonlinear oscillators: Application to the Duffing equation. <i>Mechanics Research Communications</i> , 2009, 36, 728-734.	1.8	20
14	Higher accuracy analytical approximations to a nonlinear oscillator with discontinuity by He's homotopy perturbation method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2010-2016.	2.1	30
15	Harmonic balance approaches to the nonlinear oscillators in which the restoring force is inversely proportional to the dependent variable. <i>Journal of Sound and Vibration</i> , 2008, 314, 775-782.	3.9	33
16	Application of He's homotopy perturbation method to conservative truly nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 770-780.	5.1	85
17	An Equivalent Linearization Method for Conservative Nonlinear Oscillators. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2008, 9, .	1.0	9
18	Higher-order approximate solutions to the relativistic and Duffing-harmonic oscillators by modified He's homotopy methods. <i>Physica Scripta</i> , 2008, 77, 025004.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Post-Buckling of a Cantilever Column: A More Accurate Linear Analysis of a Classical Nonlinear Problem. <i>International Journal of Mechanical Engineering Education</i> , 2007, 35, 293-304.	1.0	3
20	An Improved 'Heuristic' Approximation for the Period of a Nonlinear Pendulum: Linear Analysis of a Classical Nonlinear Problem. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007, 8, .	1.0	24
21	Application of He's Homotopy Perturbation Method to the Duffing-Harmonic Oscillator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007, 8, .	1.0	78
22	Exact solution for the nonlinear pendulum. <i>Revista Brasileira De Ensino De Fisica</i> , 2007, 29, 645-648.	0.2	74
23	Asymptotic representations of the period for the nonlinear oscillator. <i>Journal of Sound and Vibration</i> , 2007, 299, 403-408.	3.9	17
24	Application of the harmonic balance method to a nonlinear oscillator typified by a mass attached to a stretched wire. <i>Journal of Sound and Vibration</i> , 2007, 302, 1018-1029.	3.9	88
25	Comments on "Investigation of the properties of the period for the nonlinear oscillator". <i>Journal of Sound and Vibration</i> , 2007, 303, 925-930.	3.9	14
26	Application of the homotopy perturbation method to the nonlinear pendulum. <i>European Journal of Physics</i> , 2007, 28, 93-104.	0.6	71
27	Analytical approximations for the period of a nonlinear pendulum. <i>European Journal of Physics</i> , 2006, 27, 539-551.	0.6	90
28	Numerical and Experimental Analysis of Large Deflections of Cantilever Beams Under a Combined Load. <i>Physica Scripta</i> , 2005, , 61.	2.5	29
29	An Integrated Project for Teaching the Post-Buckling of a Slender Cantilever Bar. <i>International Journal of Mechanical Engineering Education</i> , 2004, 32, 78-92.	1.0	4
30	Determinación de las constantes ópticas y el espesor de materiales holográficos. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2004, 43, 457-460.	1.9	1
31	An analysis of the classical Doppler effect. <i>European Journal of Physics</i> , 2003, 24, 497-505.	0.6	19
32	Three approaches to calculating the velocity profile of a laminar incompressible fluid flow in a hollow tube. <i>American Journal of Physics</i> , 2003, 71, 46-48.	0.7	1
33	Determination of the refractive index and thickness of holographic silver halide materials by use of polarized reflectances. <i>Applied Optics</i> , 2002, 41, 6802.	2.1	10
34	Large and small deflections of a cantilever beam. <i>European Journal of Physics</i> , 2002, 23, 371-379.	0.6	197
35	Flexión de Una Barra Delgada Empotrada en un Extremo: Aproximación para Pequeñas Pendientes. <i>Revista Brasileira De Ensino De Fisica</i> , 2002, 24, 399-407.	0.2	5
36	Estudio de la Flexión de una Viga de Material Elástico no Lineal. <i>Revista Brasileira De Ensino De Fisica</i> , 2002, 24, 383-389.	0.2	0

#	ARTICLE	IF	CITATIONS
37	<title>Mechanical behavior of holographic material in high vacuum and with temperature changes</title>. , 2000, , .		0