

Wim T Van Horssen

List of Publications by Citations

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71
papers

882
citations

18
h-index

26
g-index

74
ext. papers

993
ext. citations

3.6
avg, IF

4.61
L-index

#	Paper	IF	Citations
71	On the transversal vibrations of a conveyor belt with a low and time-varying velocity. Part I: the string-like case. <i>Journal of Sound and Vibration</i> , 2003 , 264, 117-133	3.9	74
70	On the transversal vibrations of a conveyor belt with a low and time-varying velocity. Part II: the beam-like case. <i>Journal of Sound and Vibration</i> , 2003 , 267, 1007-1027	3.9	63
69	On the Weakly Nonlinear, Transversal Vibrations of a Conveyor Belt with a Low and Time-Varying Velocity. <i>Nonlinear Dynamics</i> , 2003 , 31, 197-223	5	57
68	On variable length induced vibrations of a vertical string. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2432-2449	3.9	40
67	On the influence of lateral vibrations of supports for an axially moving string. <i>Journal of Sound and Vibration</i> , 2003 , 268, 323-330	3.9	34
66	On the construction of the solution of an equation describing an axially moving string. <i>Journal of Sound and Vibration</i> , 2005 , 287, 359-366	3.9	31
65	On a cascade of autoresonances in an elevator cable system. <i>Nonlinear Dynamics</i> , 2015 , 80, 1613-1630	5	29
64	On the transversal vibrations of an axially moving continuum with a time-varying velocity: Transient from string to beam behavior. <i>Journal of Sound and Vibration</i> , 2009 , 325, 959-973	3.9	28
63	On transversal vibrations of an axially moving string with a time-varying velocity. <i>Nonlinear Dynamics</i> , 2007 , 50, 315-323	5	26
62	On the periodic solutions of a generalized non-linear Van der Pol oscillator. <i>Journal of Sound and Vibration</i> , 2003 , 268, 209-215	3.9	25
61	On resonances and the applicability of Galerkin's truncation method for an axially moving string with time-varying velocity. <i>Journal of Sound and Vibration</i> , 2015 , 344, 1-17	3.9	23
60	On the transversal vibrations of a conveyor belt: Applicability of simplified models. <i>Journal of Sound and Vibration</i> , 2008 , 313, 822-829	3.9	23
59	On transverse vibrations of a vertical Timoshenko beam. <i>Journal of Sound and Vibration</i> , 2008 , 314, 161-179	3.9	23
58	On Boundary Damping for an Axially Moving Tensioned Beam. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012 , 134,	1.6	22
57	Analytical approximations of the period of a generalized nonlinear van der Pol oscillator. <i>Journal of Sound and Vibration</i> , 2006 , 295, 1099-1104	3.9	21
56	On the effect of the bending stiffness on the damping properties of a tensioned cable with an attached tuned-mass-damper. <i>Engineering Structures</i> , 2009 , 31, 1276-1285	4.7	20
55	Resonances and vibrations in an elevator cable system due to boundary sway. <i>Journal of Sound and Vibration</i> , 2018 , 424, 272-292	3.9	19

54	ON INTERACTIONS OF OSCILLATION MODES FOR A WEAKLY NON-LINEAR UNDAMPED ELASTIC BEAM WITH AN EXTERNAL FORCE. <i>Journal of Sound and Vibration</i> , 2000 , 235, 201-217	3.9	19
53	On the multiple scales perturbation method for difference equations. <i>Nonlinear Dynamics</i> , 2009 , 55, 401-418	5	18
52	Asymptotics for a class of semilinear hyperbolic equations with an application to a problem with a quadratic nonlinearity. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1992 , 19, 501-530	1.3	18
51	On aspects of damping for a vertical beam with a tuned mass damper at the top. <i>Nonlinear Dynamics</i> , 2007 , 50, 169-190	5	17
50	On the free vibrations of an oscillator with a periodically time-varying mass. <i>Journal of Sound and Vibration</i> , 2006 , 298, 1166-1172	3.9	17
49	On the Transverse, Low Frequency Vibrations of a Traveling String With Boundary Damping. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015 , 137,	1.6	14
48	On the stability properties of a damped oscillator with a periodically time-varying mass. <i>Journal of Sound and Vibration</i> , 2011 , 330, 3257-3269	3.9	14
47	On the forced vibrations of an oscillator with a periodically time-varying mass. <i>Journal of Sound and Vibration</i> , 2010 , 329, 721-732	3.9	14
46	On the periods of the periodic solutions of the non-linear oscillator equation. <i>Journal of Sound and Vibration</i> , 2003 , 260, 961-964	3.9	14
45	On Boundary Damping for a Weakly Nonlinear Wave Equation. <i>Nonlinear Dynamics</i> , 2002 , 30, 179-191	5	13
44	Solving systems of nonlinear difference equations by the multiple scales perturbation method. <i>Nonlinear Dynamics</i> , 2012 , 69, 1509-1516	5	11
43	On the asymptotic approximation of the solution of an equation for a non-constant axially moving string. <i>Journal of Sound and Vibration</i> , 2016 , 367, 203-218	3.9	10
42	On asymptotic approximations of first integrals for second order difference equations. <i>Nonlinear Dynamics</i> , 2010 , 61, 535-551	5	10
41	Reflection and damping properties for semi-infinite string equations with non-classical boundary conditions. <i>Journal of Sound and Vibration</i> , 2015 , 336, 179-190	3.9	8
40	On wave reflections and energetics for a semi-infinite traveling string with a nonclassical boundary support. <i>Journal of Sound and Vibration</i> , 2016 , 370, 336-350	3.9	8
39	On the nonlinear dynamics of a single degree of freedom oscillator with a time-varying mass. <i>Journal of Sound and Vibration</i> , 2012 , 331, 1887-1897	3.9	8
38	On the free vibrations of a rectangular plate with two opposite sides simply supported and the other sides attached to linear springs. <i>Journal of Sound and Vibration</i> , 2004 , 278, 1081-1093	3.9	8
37	On transversal oscillations of a vertically translating string with small time-harmonic length variations. <i>Journal of Sound and Vibration</i> , 2016 , 383, 339-348	3.9	8

36	Bifurcation of Limit Cycles in a Particular Class of Quadratic Systems with Two Centers. <i>Journal of Differential Equations</i> , 1994 , 114, 538-569	2.1	7
35	Dynamic simulation of a multi-cable driven parallel suspension platform with slack cables. <i>Mechanism and Machine Theory</i> , 2018 , 126, 329-343	4	6
34	On oscillations of a beam with a small rigidity and a time-varying mass. <i>Nonlinear Dynamics</i> , 2014 , 78, 449-459	5	6
33	Asymptotic approximations of first integrals for a nonlinear oscillator. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2002 , 51, 1327-1346	1.3	6
32	On oscillations in a system with a piecewise smooth coefficient. <i>Journal of Sound and Vibration</i> , 2005 , 283, 1229-1234	3.9	6
31	On the Vibrations of a Simply Supported Square Plate on a Weakly Nonlinear Elastic Foundation. <i>Nonlinear Dynamics</i> , 2005 , 40, 35-60	5	6
30	A PIECEWISE LINEAR DYNAMICAL SYSTEM WITH TWO DROPPING SECTIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009 , 19, 1367-1372	2	5
29	On the weakly damped vibrations of a vertical beam with a tip-mass. <i>Journal of Sound and Vibration</i> , 2008 , 310, 740-754	3.9	5
28	On a Rayleigh Wave Equation with Boundary Damping. <i>Nonlinear Dynamics</i> , 2003 , 33, 399-429	5	5
27	On Approximations of First Integrals for Strongly Nonlinear Oscillators. <i>Nonlinear Dynamics</i> , 2003 , 32, 109-141	5	4
26	On Aspects of Asymptotics for Plate Equations. <i>Nonlinear Dynamics</i> , 2005 , 41, 403-413	5	4
25	On a simple oscillator problem describing ice-induced vibrations of an offshore structure. <i>Nonlinear Dynamics</i> , 2019 , 98, 151-166	5	3
24	On solving wave equations on fixed bounded intervals involving Robin boundary conditions with time-dependent coefficients. <i>Journal of Sound and Vibration</i> , 2018 , 424, 263-271	3.9	3
23	Nonlinear vibrations of a beam with time-varying rigidity and mass. <i>Nonlinear Dynamics</i> , 2013 , 71, 291-312	5	3
22	On Approximations of First Integrals for a System of Weakly Nonlinear, Coupled Harmonic Oscillators. <i>Nonlinear Dynamics</i> , 2002 , 30, 243-266	5	3
21	On Approximations of First Integrals for a Strongly Nonlinear Forced Oscillator. <i>Nonlinear Dynamics</i> , 2003 , 33, 225-252	5	3
20	On the Weakly Damped Vibrations of a String Attached to a Spring Mass Dashpot System. <i>JVC/Journal of Vibration and Control</i> , 2003 , 9, 1231-1248	2	3
19	On Parametric Stability of a Nonconstant Axially Moving String Near Resonances. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017 , 139,	1.6	2

18	On boundary damping to reduce the rain-wind oscillations of an inclined cable with small bending stiffness. <i>Nonlinear Dynamics</i> , 2019 , 95, 783-808	5	2
17	On the Lateral Vibrations of a Vertically Moving String With a Harmonically Varying Length 2015 ,		2
16	On integrating vectors and multiple scales for singularly perturbed ordinary differential equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2001 , 46, 19-43	1.3	2
15	On the Transverse Vibrations of Strings and Beams on Semi-Infinite Domains. <i>Procedia IUTAM</i> , 2016 , 19, 266-273		2
14	On constructing a Green's function for a semi-infinite beam with boundary damping. <i>Meccanica</i> , 2017 , 52, 2251-2263	2.1	1
13	On constructing solutions for the functional equation Z. <i>Applied Mathematics and Computation</i> , 2014 , 237, 373-385	2.7	1
12	Global analysis of a piecewise linear Lienard-type dynamical system. <i>International Journal of Dynamical Systems and Differential Equations</i> , 2009 , 2, 115	0.4	1
11	On the uniqueness of solutions for the Dirichlet boundary value problem of linear elastostatics in the circular domain. <i>Acta Mechanica</i> , 2008 , 197, 43-62	2.1	1
10	On aspects of boundary damping for a rectangular plate. <i>Journal of Sound and Vibration</i> , 2006 , 292, 844-853	3.5	1
9	Coupled torsional and vertical oscillations of a beam subjected to boundary damping. <i>Journal of Sound and Vibration</i> , 2006 , 298, 1113-1128	3.9	1
8	Dynamics and buckling loads for a vibrating damped Euler-Bernoulli beam connected to an inhomogeneous foundation. <i>Archive of Applied Mechanics</i> , 2021 , 91, 1291-1308	2.2	1
7	Spreading speeds and monostable waves in a reaction-diffusion model with nonlinear competition. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 511, 126077	1.1	0
6	On resonances in transversally vibrating strings induced by an external force and a time-dependent coefficient in a Robin boundary condition. <i>Journal of Sound and Vibration</i> , 2021 , 512, 116356	3.9	0
5	On an interaction function for copulas. <i>Journal of Multivariate Analysis</i> , 2015 , 138, 127-142	1.4	
4	On constructing accurate approximations of first integrals for difference equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 835-850	3.7	
3	Global bifurcations of limit and separatrix cycles in a generalized Liénard system. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2004 , 59, 189-198	1.3	
2	On resonances in a weakly nonlinear microbeam due to an electric actuation. <i>Nonlinear Dynamics</i> , 2021 , 104, 3157	5	
1	A mathematical analysis of an extended model describing sea ice-induced frequency lock-in for vertically sided offshore structures. <i>Nonlinear Dynamics</i> , 2022 , 107, 683-699	5	

