Richard H Rand

List of Publications by Year in Descending Order

191 papers	4,418 citations	35 h-index	59 g-index
205 ext. papers	4,903 ext. citations	3.2 avg, IF	5.52 L-index

#	Paper	IF	Citations
191	Queues with Delayed Information: A Dynamical Systems Perspective. *SIAM Journal on Applied Dynamical Systems*, **2022**, 21, 676-713	2.8	
190	Bistability in Coupled Opto-Thermal Micro-Oscillators. *Journal of Microelectromechanical Systems*, **2022**, 1-9	2.5	
189	Synchronization characteristics of an array of coupled MEMS limit cycle oscillators. *International Journal of Non-Linear Mechanics*, **2021**, 128, 103634	2.8	2
188	Unbounded sequences of stable limit cycles in the delayed Duffing equation: an exact analysis. *Nonlinear Dynamics*, **2021**, 103, 503-515	5	0
187	Breaking the Symmetry in Queues with Delayed Information. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31, 2130027	2	3
186	Limiting the oscillations in queues with delayed information through a novel type of delay announcement. *Queueing Systems*, **2020**, 95, 281-330	1.7	4
185	Coexisting modes and bifurcation structure in a pair of coupled detuned third order oscillators. *International Journal of Non-Linear Mechanics*, **2020**, 122, 103464	2.8	
184	Dynamics of a System of Two Coupled MEMS Oscillators. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2020**, 225-233	0.3	
183	Coexistence of infinitely many large, stable, rapidly oscillating periodic solutions in time-delayed Duffing oscillators. *Journal of Differential Equations*, **2020**, 268, 5969-5995	2.1	4
182	Simplified model and analysis of a pair of coupled thermo-optical MEMS oscillators. *Nonlinear Dynamics*, **2020**, 99, 73-83	5	2
181	A Stochastic Analysis of Queues with Customer Choice and Delayed Information. *Mathematics of Operations Research*, **2020**, 45, 1104-1126	1.5	10
180	Mechanical Superheterodyne and Its Use for Low Frequency Vibrations Sensing. *Journal of Microelectromechanical Systems*, **2019**, 28, 362-371	2.5	1
179	Nonlinear Dynamics in Queueing Theory: Determining the Size of Oscillations in Queues with Delay. *SIAM Journal on Applied Dynamical Systems*, **2019**, 18, 279-311	2.8	12
178	Locking of electrostatically coupled thermo-optically driven MEMS limit cycle oscillators. *International Journal of Non-Linear Mechanics*, **2018**, 102, 92-100	2.8	12
177	Mathieu's Equation and Its Generalizations: Overview of Stability Charts and Their Features. *Applied Mechanics Reviews*, **2018**, 70,	8.6	70
176	An analysis of queues with delayed information and time-varying arrival rates. *Nonlinear Dynamics*, **2018**, 91, 2411-2427	5	24
175	Three Ways of Treating a Linear Delay Differential Equation. *Springer Proceedings in Physics*, **2018**, 251-257	572	

174	The Dynamics of One Way Coupling in a System of Nonlinear Mathieu Equations. *The Open Mechanical Engineering Journal*, **2018**, 12, 108-123	0.3	1
173	Nondegenerate Parametric Resonance in Large Ensembles of Coupled Micromechanical Cantilevers with Varying Natural Frequencies. *Physical Review Letters*, **2018**, 121, 264301	7.4	5
172	Periodically forced delay limit cycle oscillator. *International Journal of Non-Linear Mechanics*, **2017**, 94, 216-222	2.8	4
171	Queues with Choice via Delay Differential Equations. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2017**, 27, 1730016	2	31
170	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. *Nano Letters*, **2017**, 17, 3995-4002	11.5	10
169	Analysis of a remarkable singularity in a nonlinear DDE. *Nonlinear Dynamics*, **2017**, 90, 317-323	5	7
168	Lossless crossing of a resonance stopband during tune modulation by synchrotron oscillations. *New Journal of Physics*, **2017**, 19, 093010	2.9	2
167	A Model of Evolutionary Dynamics with Quasiperiodic Forcing. *Procedia IUTAM*, **2016**, 19, 11-18		
166	Hopf Bifurcations in Delayed Rock-Paper-Scissors Replicator Dynamics. *Dynamic Games and Applications*, **2016**, 6, 139-156	1.1	14
165	Hopf Bifurcations in Two-Strategy Delayed Replicator Dynamics. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2016**, 26, 1650006	2	11
164	A Model of Evolutionary Dynamics with Quasiperiodic Forcing. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 163-171	0.3	
163	Coupled Parametrically Driven Modes in Synchrotron Dynamics. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 107-112	0.3	1
162	Dynamics of an oscillator with delay parametric excitation. *International Journal of Non-Linear Mechanics*, **2016**, 78, 66-71	2.8	7
161	Delay-Coupled Mathieu Equations in Synchrotron Dynamics. *Journal of Applied Nonlinear Dynamics*, **2016**, 5, 337-348	2	7
160	Delay Terms in the Slow Flow. *Journal of Applied Nonlinear Dynamics*, **2016**, 5, 471-484	2	7
159	Dynamics of a Delay Limit Cycle Oscillator with Self-Feedback. *Procedia IUTAM*, **2016**, 19, 152-160		2
158	Dynamics of a delay limit cycle oscillator with self-feedback. *Nonlinear Dynamics*, **2015**, 82, 481-488	5	6
157	Master-slave locking of optomechanical oscillators over a long distance. *Physical Review Letters*, **2015**, 114, 113602	7.4	29

156	Dynamics of a System of Two Coupled Oscillators Driven by a Third Oscillator. *Journal of Applied Nonlinear Dynamics*, **2014**, 3, 271-282	2	11
155	Duffing-Type Oscillators with Amplitude-Independent Period. *Springer Proceedings in Mathematics and Statistics*, **2014**, 1-10	0.2	2
154	About a class of nonlinear oscillators with amplitude-independent frequency. *Nonlinear Dynamics*, **2013**, 74, 455-465	5	17
153	Analysis of laser power threshold for self oscillation in thermo-optically excited doubly supported MEMS beams. *International Journal of Non-Linear Mechanics*, **2013**, 57, 10-15	2.8	6
152	Shape optimization of a blunt body Vibro-wind galloping oscillator. *Journal of Fluids and Structures*, **2013**, 40, 185-200	3.1	38
151	Dynamics of microbubble oscillators with delay coupling. *Nonlinear Dynamics*, **2013**, 71, 121-132	5	10
150	Entrainment of Micromechanical Limit Cycle Oscillators in the Presence of Frequency Instability. *Journal of Microelectromechanical Systems*, **2013**, 22, 835-845	2.5	12
149	Multiple limit cycles in laser interference transduced resonators. *International Journal of Non-Linear Mechanics*, **2013**, 52, 119-126	2.8	10
148	Straight-line backbone curve. *Communications in Nonlinear Science and Numerical Simulation*, **2013**, 18, 2281-2288	3.7	8
147	Parametric Excitation and Evolutionary Dynamics. *Journal of Applied Mechanics, Transactions ASME*, **2013**, 80,	2.7	3
146	Frequency Multiplication and Demultiplication in MEMS. *Conference Proceedings of the Society for Experimental Mechanics*, **2013**, 53-58	0.3	
145	On the dynamics of a thin elastica. *International Journal of Non-Linear Mechanics*, **2012**, 47, 99-107	2.8	1
144	Dynamics of a mass-spring-pendulum system with vastly different frequencies. *Nonlinear Dynamics*, **2012**, 70, 25-41	5	11
143	A pair of van der Pol oscillators coupled by fractional derivatives. *Nonlinear Dynamics*, **2012**, 69, 313-324	5	21
142	Anchor deformations drive limit cycle oscillations in interferometrically transduced MEMS beams. *Finite Elements in Analysis and Design*, **2012**, 49, 52-57	2.2	13
141	Nonlinear parametric excitation of an evolutionary dynamical system. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2012**, 226, 1912-1920	1.3	7
140	Dynamics of three coupled limit cycle oscillators with vastly different frequencies. *Nonlinear Dynamics*, **2011**, 64, 131-145	5	4
139	Evolutionary dynamics of a system with periodic coefficients. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 3887-3895	3.7	12

138	A digital model of coupled oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2011**, 16, 1135-1139	3.7	1
137	Differential-Delay Equations. *Nonlinear Physical Science*, **2011**, 83-117	0.1	6
136	Fractional Mathieu equation. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 3254-3262	3.7	49
135	Using delay to quench undesirable vibrations. *Nonlinear Dynamics*, **2010**, 62, 407-416	5	20
134	Dynamics of a model of two delay-coupled relaxation oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 1980-1988	3.7	1
133	Dynamics of microbubble oscillators with delay coupling. *Communications in Nonlinear Science and Numerical Simulation*, **2010**, 15, 2735-2743	3.7	6
132	Slow Passage through Multiple Parametric Resonance Tongues. *JVC/Journal of Vibration and Control*, **2009**, 15, 1581-1600	2	7
131	Dynamics of three coupled limit cycle oscillators with application to artificial intelligence. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 270-283	3.7	15
130	Dynamics of a ring of three coupled relaxation oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 1598-1608	3.7	9
129	Three oscillator model of the heartbeat generator. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 2434-2449	3.7	10
128	Dynamics of a ring network of phase-only oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 3901-3913	3.7	1
127	Origin of arrhythmias in a heart model. *Communications in Nonlinear Science and Numerical Simulation*, **2009**, 14, 3707-3714	3.7	4
126	DDE Model of Gene Expression: A Continuum Approach **2008**,		1
125	Hopf bifurcation in a DDE model of gene expression. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 235-242	3.7	53
124	Frequency locking in a forced Mathieu–van der Pol–Duffing system. *Nonlinear Dynamics*, **2008**, 54, 3-12	5	40
123	Dynamics of four coupled phase-only oscillators. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 501-507	3.7	10
122	Center manifold analysis of a DDE model of gene expression. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 1112-1120	3.7	15
121	Autoparametric quasiperiodic excitation. *International Journal of Non-Linear Mechanics*, **2008**, 43, 320-327	1.8	7

120	Dynamics of three coupled van der Pol oscillators with application to circadian rhythms. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 794-803	3.7	61
119	Perturbation analysis of entrainment in a micromechanical limit cycle oscillator. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 1291-1301	3.7	28
118	Trigonometric simplification of a class of conservative nonlinear oscillators. *Nonlinear Dynamics*, **2007**, 49, 193-201	5	2
117	Two models for the parametric forcing of a nonlinear oscillator. *Nonlinear Dynamics*, **2007**, 50, 147-160	5	3
116	2:1 Resonance in the delayed nonlinear Mathieu equation. *Nonlinear Dynamics*, **2007**, 50, 341-352	5	35
115	Hopf bifurcation formula for first order differential-delay equations. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 859-864	3.7	30
114	Stability of strongly nonlinear normal modes. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 1128-1132	3.7	6
113	Frequency Locking in a Forced Mathieu-van der Pol-Duffing System **2007**, 893		3
112	Singular unlocking transition in the Winfree model of coupled oscillators. *Physical Review E*, **2007**, 75, 036218	2.4	25
111	Effect of quasiperiodic gravitational modulation on the stability of a heated fluid layer. *Physical Review E*, **2007**, 76, 056320	2.4	21
110	Analysis of Frequency Locking in Optically Driven MEMS Resonators. *Journal of Microelectromechanical Systems*, **2006**, 15, 1546-1554	2.5	27
109	The Damped Nonlinear Quasiperiodic Mathieu Equation Near 2:2:1 Resonance. *Nonlinear Dynamics*, **2006**, 45, 237-247	5	9
108	Third-order intermodulation in a micromechanical thermal mixer. *Journal of Microelectromechanical Systems*, **2005**, 14, 1244-1252	2.5	25
107	Coexistence phenomenon in autoparametric excitation of two degree of freedom systems. *International Journal of Non-Linear Mechanics*, **2005**, 40, 1160-1170	2.8	10
106	Self-thinning and community persistence in a simple size-structured dynamical model of plant growth. *Journal of Mathematical Biology*, **2005**, 51, 333-54	2	8
105	Parametric Resonance of Hopf Bifurcation. *Nonlinear Dynamics*, **2005**, 39, 411-421	5	11
104	2:1:1 Resonance in the Quasi-Periodic Mathieu Equation. *Nonlinear Dynamics*, **2005**, 40, 195-203	5	25
103	Frequency Locking in a Forced Mathieu-van der Pol System **2005**, 1367		1

102	Perturbation solution for secondary bifurcation in the quadratically-damped Mathieu equation. *International Journal of Non-Linear Mechanics*, **2004**, 39, 491-502	2.8	27
101	Non-linear dynamics of a system of coupled oscillators with essential stiffness non-linearities. *International Journal of Non-Linear Mechanics*, **2004**, 39, 1079-1091	2.8	44
100	Dynamics of two van der Pol oscillators coupled via a bath. *International Journal of Solids and Structures*, **2004**, 41, 2133-2143	3.1	48
99	Limit cycle oscillations in CW laser-driven NEMS. *Journal of Microelectromechanical Systems*, **2004**, 13, 1018-1026	2.5	74
98	2:2:1 Resonance in the Quasiperiodic Mathieu Equation **2003**, 2155		
97	Hopf Bifurcation in a Disk-Shaped NEMS **2003**, 1759		5
96	2:2:1 Resonance in the Quasiperiodic Mathieu Equation. *Nonlinear Dynamics*, **2003**, 31, 367-374	5	43
95	Nonlinear Effects on Coexistence Phenomenon in Parametric Excitation. *Nonlinear Dynamics*, **2003**, 31, 73-89	5	12
94	Tree size frequency distributions, plant density, age and community disturbance. *Ecology Letters*, **2003**, 6, 405-411	10	101
93	Size-dependent species richness: trends within plant communities and across latitude. *Ecology Letters*, **2003**, 6, 631-636	10	32
92	Frequency entrainment for micromechanical oscillator. *Applied Physics Letters*, **2003**, 83, 3281-3283	3.4	62
91	A numerical investigation of the dynamics of a system of two time-delay coupled relaxation oscillators. *Communications on Pure and Applied Analysis*, **2003**, 2, 567-577	1.9	7
90	Bifurcations in a Mathieu equation with cubic nonlinearities. *Chaos, Solitons and Fractals*, **2002**, 14, 173-181	3.3	55
89	Bifurcations in a Mathieu equation with cubic nonlinearities: Part II. *Communications in Nonlinear Science and Numerical Simulation*, **2002**, 7, 107-121	3.7	19
88	Subharmonic resonance in the non-linear Mathieu equation. *International Journal of Non-Linear Mechanics*, **2002**, 37, 43-73	2.8	39
87	Global Behavior of a Nonlinear Quasiperiodic Mathieu Equation. *Nonlinear Dynamics*, **2002**, 27, 87-105	5	31
86	The Dynamics of Two Coupled van der Pol Oscillators with Delay Coupling. *Nonlinear Dynamics*, **2002**, 30, 205-221	5	110
85	Nonlinear Effects on Coexistence Phenomenon in Parametric Excitation **2002**, 425		

84	Analysis of a Non-linear Partial Difference Equation, and Its Application to Cardiac Dynamics. *Journal of Difference Equations and Applications*, **2002**, 8, 1147-1169	1	8
83	Non-linear modal interactions in the oscillations of a liquid drop in a gravitational field. *International Journal of Non-Linear Mechanics*, **2001**, 36, 803-812	2.8	2
82	Nonlinear Normal Modes in a System with Nonholonomic Constraints. *Nonlinear Dynamics*, **2001**, 25, 49-64	5	6
81	Relaxing Nonholonomic Constraints. *Series on Stability, Vibration and Control of Systems - Series B*, **2000**, 113-116		2
80	Sequences of orbits and the boundaries of the basin of attraction for two double heteroclinic orbits. *International Journal of Non-Linear Mechanics*, **1999**, 34, 1047-1059	2.8	3
79	Resonant Capture and Separatrix Crossing in Dual-Spin Spacecraft. *Nonlinear Dynamics*, **1999**, 18, 159-184	5	14
78	Dynamics of a nonlinear parametrically excited partial differential equation. *Chaos*, **1999**, 9, 242-253	3.3	14
77	Dynamics of a Quasiperiodically-Forced Mathieu Oscillator. *Solid Mechanics and Its Applications*, **1999**, 61-70	0.4	1
76	On the Torus Flow Y? = A + B cos Y + C cos X and its Relation to the Quasiperiodic Mathieu Equation **1999**,		2
75	Transition Curves for the Quasi-Periodic Mathieu Equation. *SIAM Journal on Applied Mathematics*, **1998**, 58, 1094-1115	1.8	68
74	A QUASIPERIODIC MATHIEU EQUATION. *Series on Stability, Vibration and Control of Systems - Series B*, **1997**, 203-221		4
73	Mathematical model of a Placido disk keratometer and its implications for recovery of corneal topography. *Optometry and Vision Science*, **1997**, 74, 926-30	2.1	34
72	Relaxation Oscillations in Tidally Evolving Satellites. *Celestial Mechanics and Dynamical Astronomy*, **1997**, 67, 111-130	1.4	4
71	MODAL ANALYSIS OF A CRACKED BEAM. *Journal of Sound and Vibration*, **1997**, 207, 249-270	3.9	162
70	Synchronous Locking of Tidally Evolving Satellites. *Icarus*, **1996**, 122, 166-192	3.8	81
69	Dynamics of a nonlinear parametrically-excited PDE: 2-term truncation. *Mechanics Research Communications*, **1996**, 23, 283-289	2.2	18
68	Nonlinear control of dual-spin spacecraft during despin through precession phase lock. *Journal of Guidance, Control, and Dynamics*, **1996**, 19, 60-67	2.1	13
67	Spinup dynamics of axial dual-spin spacecraft. *Journal of Guidance, Control, and Dynamics*, **1994**, 17, 30-37	2.1	71

66	Oscillatory reaction-diffusion equations on rings. *Journal of Mathematical Biology*, **1994**, 32, 617-632	2	5
65	Dynamics of spinup through resonance. *International Journal of Non-Linear Mechanics*, **1992**, 27, 489-502	2.8	60
64	Normal modes and global dynamics of a two-degree-of-freedom non-linear system□ Low energies. *International Journal of Non-Linear Mechanics*, **1992**, 27, 861-874	2.8	74
63	Normal modes and global dynamics of a two-degree-of-freedom non-linear system□. High energies. *International Journal of Non-Linear Mechanics*, **1992**, 27, 875-888	2.8	50
62	Chaotic Motions of a Constrained Pipe Conveying Fluid: Comparison Between Simulation, Analysis, and Experiment. *Journal of Applied Mechanics, Transactions ASME*, **1991**, 58, 559-565	2.7	53
61	Analytical model of corneal surgery. *Journal of Biomechanical Engineering*, **1991**, 113, 239-41	2.1	15
60	MACSYMA Program to Implement Averaging Using Elliptic Functions. *The IMA Volumes in Mathematics and Its Applications*, **1991**, 71-89	0.5	2
59	Averaging using elliptic functions: approximation of limit cycles. *Acta Mechanica*, **1990**, 81, 125-142	2.1	121
58	Chaos in a system with a periodically disappearing separatrix. *Nonlinear Dynamics*, **1990**, 1, 401-420	5	9
57	Bifurcations and chaos in a forced zero-stiffness impact oscillator. *International Journal of Non-Linear Mechanics*, **1990**, 25, 417-432	2.8	52
56	Resonance in a high-speed flexible-arm robot. *Dynamical Systems*, **1989**, 4, 169-188		5
55	Degenerate homoclinic cycles in perturbations of quadratic Hamiltonian systems. *Nonlinearity*, **1989**, 2, 405-418	1.7	16
54	Analytical approximation for period-doubling following a hopf bifurcation. *Mechanics Research Communications*, **1989**, 16, 117-123	2.2	22
53	The transition to chaos in a simple mechanical system. *International Journal of Non-Linear Mechanics* , **1989**, 24, 41-56	2.8	106
52	Computer Algebra Implementation of Lie Transforms for Hamiltonian Systems: Application to the Nonlinear Stability of L4. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **1989**, 69, 275-284	1	5
51	Computer algebra, Lie Transforms and the nonlinear stability of L4. *Celestial Mechanics*, **1988**, 45, 103-104		4
50	Subharmonic entrainment of a forced relaxation oscillator. *International Journal of Non-Linear Mechanics*, **1988**, 23, 231-239	2.8	10
49	Lie transforms applied to a non-linear parametric excitation problem. *International Journal of Non-Linear Mechanics*, **1988**, 23, 297-313	2.8	2

48	The transition from phase locking to drift in a system of two weakly coupled van der pol oscillators. *International Journal of Non-Linear Mechanics*, **1988**, 23, 369-376	2.8	68
47	Role of stomatal oscillations on transpiration, assimilation and water-use efficiency of plants. *Ecological Modelling*, **1988**, 41, 27-40	3	17
46	Perturbation Methods, Bifurcation Theory and Computer Algebra. *Applied Mathematical Sciences (Switzerland)*, **1987**,	0.9	122
45	Determinacy of degenerate equilibria with linear part x'=y, y'= 0 using MACSYMA. *Applied Mathematics and Computation*, **1987**, 21, 1-19	2.7	5
44	Addendum to Approximations for solute transport through porous media with flow transverse to layering *Transport in Porous Media*, **1987**, 2, 421	3.1	3
43	A simplified model of coupled relaxation oscillators. *International Journal of Non-Linear Mechanics*, **1987**, 22, 283-289	2.8	11
42	A finite element analysis of the mechanical and thermal strength of avian eggs. *Biosystems Engineering*, **1986**, 33, 57-78		4
41	Dynamics of Two Strongly Coupled Relaxation Oscillators. *SIAM Journal on Applied Mathematics*, **1986**, 46, 56-67	1.8	33
40	Stability of a Rigid Body With an Oscillating Particle: An Application of MACSYMA. *Journal of Applied Mechanics, Transactions ASME*, **1985**, 52, 686-692	2.7	4
39	Eye movements and the enhancement of edges. *Journal of Mathematical Biology*, **1985**, 21, 273-83	2	1
38	An analysis of resistance to water flow through wheat and tall fescue leaves during pressure chamber efflux experiments. *Plant, Cell and Environment*, **1985**, 8, 7-18	8.4	9
37	Dynamics of a system exhibiting the global bifurcation of a limit cycle at infinity. *International Journal of Non-Linear Mechanics*, **1985**, 20, 325-338	2.8	8
36	A fluid-filled spherical shell model of the thermo-elastic behaviour of avian eggs. *Biosystems Engineering*, **1985**, 32, 95-109		5
35	Numerical corrections of Wu's coefficients for scattering of high-frequency waves from spheres and cylinders. *Physical Review Letters*, **1985**, 55, 555-557	7.4	3
34	1:1 and 2:1 phase entrainment in a system of two coupled limit cycle oscillators. *Journal of Mathematical Biology*, **1984**, 20, 133	2	29
33	A mathematical model of the effects of Co2 on stomatal dynamics. *Journal of Theoretical Biology*, **1983**, 101, 415-440	2.3	8
32	Fluid Mechanics of Green Plants. *Annual Review of Fluid Mechanics*, **1983**, 15, 29-45	22	30
31	Bifurcation of 4:1 subharmonics in the nonlinear mathieu equation. *Mechanics Research Communications*, **1982**, 9, 233-240	2.2	10

30	Dynamics of two strongly coupled van der pol oscillators. *International Journal of Non-Linear Mechanics*, **1982**, 17, 143-152	2.8	69
29	Dynamics of coupled stomatal oscillators. *Journal of Mathematical Biology*, **1982**, 15, 131-149	2	15
28	Hopf bifurcation in a stomatal oscillator. *Journal of Mathematical Biology*, **1982**, 12, 1-11	2	17
27	The nature of the coupling between segmental oscillators of the lamprey spinal generator for locomotion: a mathematical model. *Journal of Mathematical Biology*, **1982**, 13, 345-69	2	432
26	Coupled oscillators as a model for nonlinear parametric excitation. *Mechanics Research Communications*, **1981**, 8, 263-268	2.2	10
25	Bifurcation of periodic motions in two weakly coupled van der Pol oscillators. *International Journal of Non-Linear Mechanics*, **1980**, 15, 387-399	2.8	153
24	An Application of the Poincare Map to the Stability of Nonlinear Normal Modes. *Journal of Applied Mechanics, Transactions ASME*, **1980**, 47, 645-651	2.7	31
23	On the existence and bifurcation of minimal normal modes. *International Journal of Non-Linear Mechanics*, **1979**, 14, 1-12	2.8	21
22	The dynamics of an evaporating meniseus. *Acta Mechanica*, **1978**, 29, 135-146	2.1	9
21	The Stability of Bifurcating Periodic Solutions in a Two-Degree-of-Freedom Nonlinear System. *Journal of Applied Mechanics, Transactions ASME*, **1977**, 44, 782-784	2.7	20
20	A hydrodynamical model of bordered pits in conifer tracheids. *Journal of Theoretical Biology*, **1977**, 67, 11-24	2.3	10
19	The Wheel Shimmy Problem: Its Relationship to Wheel and Road Irregularities. *Vehicle System Dynamics*, **1975**, 4, 9-41	2.8	5
18	A direct method for non-linear normal modes. *International Journal of Non-Linear Mechanics*, **1974**, 9, 363-368	2.8	74
17	The geometrical stability of non-linear normal modes in two degree of freedom systems. *International Journal of Non-Linear Mechanics*, **1973**, 8, 161-168	2.8	18
16	A mathematical study of resonance in intact fruits and vegetables using a 3-media elastic sphere model. *Biosystems Engineering*, **1973**, 18, 141-157		53
15	Nonlinear Vibrations of Two-Degree-of-Freedom Systems With Repeated Linearized Natural Frequencies. *Journal of Applied Mechanics, Transactions ASME*, **1972**, 39, 296-297	2.7	11
14	Geometrical dynamics: A new approach to periodic orbits aroundL 4. *Celestial Mechanics*, **1972**, 6, 416-420		3
13	A higher order approximation for non-linear normal modes in two degree of freedom systems. *International Journal of Non-Linear Mechanics*, **1971**, 6, 545-547	2.8	29

12	Nonlinear Normal Modes in Two-Degree-of-Freedom Systems. *Journal of Applied Mechanics, Transactions ASME*, **1971**, 38, 561-561	2.7	31
11	On the Stability of a Differential Equation With Application to Parametrically Excited Systems. *Journal of Applied Mechanics, Transactions ASME*, **1970**, 37, 218-220	2.7	
10	On the stability of the vibrations of a particle in the plane restrained by two non-identical springs. *International Journal of Non-Linear Mechanics*, **1970**, 5, 1-9	2.8	6
9	Vibratory fruit harvesting: A non-linear theory of fruit-stem dynamics. *Biosystems Engineering*, **1970**, 15, 347-363		11
8	Stability of the triangular points in the elliptic restricted problem of three bodies.. *AIAA Journal*, **1969**, 7, 1024-1028	2.1	17
7	On the Stability of the Vibrations of Two Coupled Particles in the Plane. *Journal of Applied Mechanics, Transactions ASME*, **1969**, 36, 417-419	2.7	
6	On the Stability of a Differential Equation With Application to the Vibrations of a Particle in the Plane. *Journal of Applied Mechanics, Transactions ASME*, **1969**, 36, 311-313	2.7	8
5	On the Stability of Hill Equation With Four Independent Parameters. *Journal of Applied Mechanics, Transactions ASME*, **1969**, 36, 885-886	2.7	11
4	Torsional Vibrations of Elastic Prolate Spheroids. *Journal of the Acoustical Society of America*, **1968**, 44, 749-751	2.2	11
3	Vibrations of Fluid-Filled Spherical and Spheroidal Shells. *Journal of the Acoustical Society of America*, **1967**, 42, 1278-1286	2.2	46
2	Axisymmetric Vibrations of Prolate Spheroidal Shells. *Journal of the Acoustical Society of America*, **1966**, 40, 179-186	2.2	16
1	Transmission Dynamics of COVID-19 and Impact on Public Health Policy		11