Philip D Cha

List of Publications by Year
in descending order

26 papers	307 citations	1040056 9 h-index	888059 17 g-index
26 all docs	26 docs citations	26 times ranked	262 citing authors

#	Article	IF	Citations
1	Sensitivity Analysis of Suppressing Vibration by Inducing a Node on a Harmonically Forced Euler–Bernoulli Beam. Journal of Vibration and Acoustics, Transactions of the ASME, 2022, 144, .	1.6	1
2	Using vibration absorber to eliminate vibration for any mass in a harmonically excited chain of oscillators. International Journal of Mechanical Engineering Education, 2021, 49, 242-265.	1.0	0
3	Raman spectroscopy and artificial intelligence to predict the Bayesian probability of breast cancer. Scientific Reports, 2021, 11, 6482.	3.3	23
4	Raman Spectroscopy for Rapid Evaluation of Surgical Margins during Breast Cancer Lumpectomy. Scientific Reports, 2019, 9, 14639.	3.3	61
5	A sensitivity-based approach to solving the inverse eigenvalue problem for linear structures carrying lumped attachments. International Journal for Numerical Methods in Engineering, 2019, 120, 537-566.	2.8	5
6	Quenching Vibration by Imposing Nodes on a Plate Subjected to Multiple Harmonics With Distinct Excitation Frequencies. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	2
7	An efficient method to quench excess vibration for a harmonically excited damped plate. International Journal of Mechanical Sciences, 2018, 141, 372-385.	6.7	7
8	Imposing points of zero displacement and zero slopes on a plate subjected to steady-state harmonic excitation. JVC/Journal of Vibration and Control, 2018, 24, 4904-4920.	2.6	2
9	Perturbation Methods for the Eigencharacteristics of Symmetric and Asymmetric Systems. Shock and Vibration, 2018, 2018, 1-25.	0.6	6
10	Exact Frequency Equation of a Linear Structure Carrying Lumped Elements Using the Assumed Modes Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	1
11	An Efficient Method for Tuning Oscillator Parameters in Order to Impose Nodes on a Linear Structure Excited by Multiple Harmonics. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	12
12	Frequency Analysis of an Arbitrarily Supported, Exponentially Tapered Beam. International Journal of Mechanical Engineering Education, 2013, 41, 252-268.	1.0	1
13	Enforcing Nodes to Suppress Vibration Along a Harmonically Forced Damped Euler-Bernoulli Beam. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, .	1.6	13
14	Quenching vibration along a harmonically excited linear structure using lumped masses. JVC/Journal of Vibration and Control, 2011, 17, 527-539.	2.6	8
15	Eigenvalue Sensitivities of a Linear Structure Carrying Lumped Attachments. AIAA Journal, 2011, 49, 2470-2481.	2.6	14
16	Using a Characteristic Force Approach to Determine the Eigensolutions of an Arbitrarily Supported Linear Structure Carrying Lumped Attachments. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	2
17	Mitigating Vibration Along an Arbitrarily Supported Elastic Structure Using Multiple Two-Degree-of-Freedom Oscillators. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	8
18	Applying Eigenvalue Perturbation Theory to Solve Problems in Structural Dynamics. International Journal of Mechanical Engineering Education, 2008, 36, 160-175.	1.0	2

#	Article	IF	Citations
19	Eigenfrequencies of an Arbitrarily Supported Beam Carrying Multiple In-Span Elastic Rod-Mass Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	7
20	Applying Sherman-Morrison-Woodbury Formulas to Analyze the Free and Forced Responses of a Linear Structure Carrying Lumped Elements. Journal of Vibration and Acoustics, Transactions of the ASME, 2007, 129, 307-316.	1.6	9
21	Improved eigenvalues for combined dynamical systems using a modified finite element discretization scheme. Journal of Sound and Vibration, 2007, 305, 365-377.	3.9	0
22	Free vibration of a uniform beam with multiple elastically mounted two-degree-of-freedom systems. Journal of Sound and Vibration, 2007, 307, 386-392.	3.9	15
23	Imposing points of zero displacements and zero slopes along any linear structure during harmonic excitations. Journal of Sound and Vibration, 2006, 297, 55-71.	3.9	30
24	Enforcing nodes at required locations in a harmonically excited structure using simple oscillators. Journal of Sound and Vibration, 2005, 279, 799-816.	3.9	34
25	A general approach to formulating the frequency equation for a beam carrying miscellaneous attachments. Journal of Sound and Vibration, 2005, 286, 921-939.	3.9	37
26	Frequency Analysis of a Linear Elastic Structure Carrying a Chain of Oscillators. Journal of Engineering Mechanics - ASCE, 1999, 125, 587-591.	2.9	7