

# Srinivasan Gopalakrishnan

## List of Publications by Year in descending order

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225  
papers

6,860  
citations

66234

42  
h-index

74018

75  
g-index

240  
all docs

240  
docs citations

240  
times ranked

3541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse characterization of composites using guided waves and convolutional neural networks with dual-branch feature fusion. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 6595-6611.	1.5	7
2	A new spectral finite element for the study of face sheet-core disbond identification in a sandwich panel. <i>Thin-Walled Structures</i> , 2022, 170, 108653.	2.7	0
3	Delamination prediction in composite panels using unsupervised-feature learning methods with wavelet-enhanced guided wave representations. <i>Composite Structures</i> , 2022, 291, 115579.	3.1	18
4	Material property identification in composite structures using time domain spectral elements. <i>Composite Structures</i> , 2022, 292, 115656.	3.1	0
5	Ultrasonic guided wave based structural damage detection and localization using model assisted convolutional and recurrent neural networks. <i>Expert Systems With Applications</i> , 2021, 167, 114189.	4.4	88
6	Static, stability and dynamic analyses of second strain gradient elastic Euler-Bernoulli beams. <i>Acta Mechanica</i> , 2021, 232, 1425-1444.	1.1	3
7	Time domain spectral element-based wave finite element method for periodic structures. <i>Acta Mechanica</i> , 2021, 232, 2269-2296.	1.1	3
8	Combined two-level damage identification strategy using ultrasonic guided waves and physical knowledge assisted machine learning. <i>Ultrasonics</i> , 2021, 115, 106451.	2.1	60
9	Nonlinear modeling of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si27.svg"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 33 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ -mode piezoelectric actuators using experimental vibration analysis. <i>Journal of Sound and Vibration</i> , 2021, 505, 116151.	2.1	6
10	Propagation of Elastic Waves in Nonlocal Bars and Beams. <i>Lecture Notes in Civil Engineering</i> , 2021, , 3-21.	0.3	0
11	Static and dynamic analysis of sandwich panel with spatially varying non-Gaussian properties. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 2469-2504.	2.0	7
12	A novel weak form quadrature element for gradient elastic beam theories. <i>Applied Mathematical Modelling</i> , 2020, 77, 1-16.	2.2	13
13	Existence of second spectrums of Timoshenko beam and Mindlin-Herrmann rod theories on the basis of atomistic studies. <i>Acta Mechanica</i> , 2020, 231, 1159-1171.	1.1	2
14	Impact force identification in structures using time-domain spectral finite elements. <i>Acta Mechanica</i> , 2020, 231, 4513-4528.	1.1	4
15	On causality of wave motion in nonlocal theories of elasticity: a Kramers-Kronig relations study. <i>Annals of Solid and Structural Mechanics</i> , 2020, 12, 165-187.	0.5	1
16	Weak form quadrature elements for non-classical Kirchhoff plate theory. <i>Annals of Solid and Structural Mechanics</i> , 2020, 12, 123-139.	0.5	2
17	A half a decade timeline of shape memory alloys in modeling and applications. <i>ISSS Journal of Micro and Smart Systems</i> , 2020, 9, 1-32.	1.0	8
18	A Re-Examination of Wave Dispersion and on Equivalent Spatial Gradient of the Integral in Bond-Based Peridynamics. <i>Journal of Peridynamics and Nonlocal Modeling</i> , 2020, 2, 243-277.	1.4	5

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19	Review on the use of piezoelectric materials for active vibration, noise, and flow control. Smart Materials and Structures, 2020, 29, 053001.	1.8	107
20	Ultrasonic guided wave scattering due to delamination in curved composite structures. Composite Structures, 2020, 239, 111987.	3.1	22
21	Design, modeling and testing of $d_{33}$ -mode surface-bondable multilayer piezoelectric actuator. Smart Materials and Structures, 2020, 29, 045016.	1.8	8
22	Longitudinal wave propagation in one-dimensional waveguides with sinusoidally varying depth. Journal of Sound and Vibration, 2019, 463, 114945.	2.1	6
23	Development of Family of Super Convergent Shear Deformable Finite Elements for the Analysis of Sandwich Beams with Soft Core. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 153-174.	1.4	0
24	Stochastic time domain spectral element analysis of beam structures. Acta Mechanica, 2019, 230, 1487-1512.	1.1	10
25	Optimization of laminated composite structure considering uncertainty effects. Mechanics of Advanced Materials and Structures, 2019, 26, 493-502.	1.5	22
26	Control of wave propagation response using quasi crystals: A formulation based on spectral finite element. Mechanics of Advanced Materials and Structures, 2019, 26, 579-600.	1.5	1
27	Nonlinear characterization of piezoelectric patches and piezoelectric stacks from vibrations of piezo-actuated structures. , 2019, , .		2
28	Sandwich Structures Subjected to UNDEX Loading. Springer Transactions in Civil and Environmental Engineering, 2018, , 73-96.	0.3	0
29	Ply level uncertainty effects on failure curves and optimal design of laminated composites using directional bat algorithm. International Journal for Computational Methods in Engineering Science and Mechanics, 2018, 19, 156-170.	1.4	6
30	Unified nonlocal rational continuum models developed from discrete atomistic equations. International Journal of Mechanical Sciences, 2018, 135, 176-189.	3.6	7
31	Improved Well-Conditioned Model Order Reduction Method Based on Multilevel Krylov Subspaces. IEEE Microwave and Wireless Components Letters, 2018, 28, 1065-1067.	2.0	3
32	A comparative study of wave dispersion between discrete and continuum linear bond-based peridynamics systems: 1D framework. Mechanics Research Communications, 2018, 94, 40-44.	1.0	6
33	Lamb wave interaction with composite delamination. Composite Structures, 2018, 206, 484-498.	3.1	69
34	Wave transmission characteristics for higher-order sandwich panel with flexible core using time-domain spectral element method. Journal of Sandwich Structures and Materials, 2017, 19, 364-393.	2.0	7
35	Spectral element formulation for an electrostrictive material embedded in a beam. ISSS Journal of Micro and Smart Systems, 2017, 6, 91-107.	1.0	2
36	Band structure computation of polygonal solid-solid phononic crystal with features using frequency domain spectral superelement method. Proceedings of SPIE, 2017, , .	0.8	0

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37	Phononic dispersion of graphene using atomistic-continuum model and spectrally formulated finite element method. Proceedings of SPIE, 2017, , .	0.8	0
38	Laser Doppler imaging of delamination in a composite T-joint with remotely located ultrasonic actuators. Composite Structures, 2016, 147, 197-210.	3.1	23
39	Phononic band gap design in honeycomb lattice with combinations of auxetic and conventional core. Smart Materials and Structures, 2016, 25, 054011.	1.8	32
40	Guided wave based structural health monitoring: A review. Smart Materials and Structures, 2016, 25, 053001.	1.8	662
41	A frequency domain Ritz-method-based spectral finite element methodology for the computation of band structure of the pentamode metamaterials. , 2016, , .		0
42	Novel design of honeycombs using a seamless combination of auxetic and conventional cores toward phononic band gap engineering. , 2015, , .		1
43	Generation of Temperature Dependent Transversely Isotropic Properties for Zigzag and Armchair Single-Walled Carbon Nanotubes. Transactions of the Indian Institute of Metals, 2015, 68, 185-194.	0.7	0
44	Spectral solutions to the Korteweg-de-Vries and nonlinear Schrodinger equations. Chaos, Solitons and Fractals, 2015, 81, 150-161.	2.5	0
45	Multi-transform based spectral element to include first order shear deformation in plates. International Journal of Mechanical Sciences, 2015, 96-97, 110-120.	3.6	4
46	A spectral element for wave propagation in honeycomb sandwich construction considering core flexibility. Composite Structures, 2015, 127, 28-40.	3.1	8
47	Wave propagation of phonon and phason displacement modes in quasicrystals: Determination of wave parameters. Journal of Applied Physics, 2015, 117, .	1.1	7
48	Wave propagation analysis in adhesively bonded composite joints using the wavelet spectral finite element method. Composite Structures, 2015, 122, 271-283.	3.1	21
49	Comparative study of different nonconserving time integrators for wave propagation in hyperelastic waveguides. Acta Mechanica, 2014, 225, 2789-2814.	1.1	1
50	Spectral finite element based on an efficient layerwise theory for wave propagation analysis of composite and sandwich beams. Journal of Sound and Vibration, 2014, 333, 3120-3137.	2.1	35
51	Wavelet spectral finite element for wave propagation in shear deformable laminated composite plates. Composite Structures, 2014, 108, 341-353.	3.1	40
52	A Nonlocal Continuum Mechanics Model for Analyzing the Terahertz Flexural Wave Dispersion Characteristics of a Monolayer Graphene Embedded in Elastic Medium. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 62-68.	1.4	1
53	A spectral multiscale method for wave propagation analysis: Atomistic-continuum coupled simulation. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 744-764.	3.4	5
54	Wave propagation analysis in laminated composite plates with transverse cracks using the wavelet spectral finite element method. Finite Elements in Analysis and Design, 2014, 89, 19-32.	1.7	34

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55	Automatic finite element formulation and assembly of hyperelastic higher order structural models. Applied Mathematical Modelling, 2014, 38, 2867-2883.	2.2	6
56	Smart Materials Technology for Aerospace Applications. Springer Tracts in Mechanical Engineering, 2014, , 423-437.	0.1	3
57	Wave Propagation in Nanostructures. Nanoscience and Technology, 2013, , .	1.5	62
58	Augmented Krylov model order reduction for finite element approximation of plane wave scattering problems. , 2013, , .		6
59	Wave propagation in a porous composite beam: Porosity determination, location and quantification. International Journal of Solids and Structures, 2013, 50, 556-569.	1.3	8
60	Wave propagation in stiffened structures using spectrally formulated finite element. European Journal of Mechanics, A/Solids, 2013, 41, 1-15.	2.1	10
61	Thermal vibration analysis of monolayer graphene embedded in elastic medium based on nonlocal continuum mechanics. Composite Structures, 2013, 100, 332-342.	3.1	24
62	Jacobi-Davidson iteration based reduced order finite element models for radar cross-section. , 2013, , .		0
63	Wave Propagation in 1D-Nanostructures: Nanobeams. Nanoscience and Technology, 2013, , 165-214.	1.5	0
64	Guided ultrasonic wave propagation through inaccessible damage in a folded plate using sensor-actuator network. Proceedings of SPIE, 2013, , .	0.8	0
65	Material Property and Nonlocal Scale Parameter Estimation for Carbon Nanotubes. Nanoscience and Technology, 2013, , 71-119.	1.5	0
66	Wave Propagation in 1D-Nanostructures: Nanorods. Nanoscience and Technology, 2013, , 121-163.	1.5	0
67	Wave Propagation in Nanoshells. Nanoscience and Technology, 2013, , 323-353.	1.5	1
68	Wave Propagation in 2D-Nanostructures. Nanoscience and Technology, 2013, , 269-321.	1.5	0
69	Time and Frequency Domain Finite Element Models for Axial Wave Analysis in Hyperelastic Rods. Mechanics of Advanced Materials and Structures, 2012, 19, 79-99.	1.5	10
70	A NONLOCAL CONTINUUM MECHANICS MODEL TO ESTIMATE THE MATERIAL PROPERTY OF SINGLE-WALLED CARBON NANOTUBES. International Journal of Nanoscience, 2012, 11, 1250007.	0.4	6
71	Uncertainty Quantification of Sloshing Motion in Partially Filled Rectangular Tanks. International Journal for Computational Methods in Engineering Science and Mechanics, 2012, 13, 146-160.	1.4	3
72	Scale effects on ultrasonic wave dispersion characteristics of monolayer graphene embedded in an elastic medium. Journal of Mechanics of Materials and Structures, 2012, 7, 413-434.	0.4	2

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73	Thermal vibration analysis of orthotropic nanoplates based on nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1950-1962.	1.3	44
74	Automatic energy-momentum conserving time integrators for hyperelastic waves. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4700-4711.	1.1	1
75	Study of non-local wave properties of nanotubes with surface effects. <i>Computational Materials Science</i> , 2012, 56, 179-184.	1.4	25
76	Nonlocal continuum mechanics based ultrasonic flexural wave dispersion characteristics of a monolayer graphene embedded in polymer matrix. <i>Composites Part B: Engineering</i> , 2012, 43, 3096-3103.	5.9	19
77	Dynamics of rotating composite beams: A comparative study between CNT reinforced polymer composite beams and laminated composite beams using spectral finite elements. <i>International Journal of Mechanical Sciences</i> , 2012, 64, 110-126.	3.6	36
78	Study of terahertz wave propagation properties in nanoplates with surface and small-scale effects. <i>International Journal of Mechanical Sciences</i> , 2012, 64, 221-231.	3.6	37
79	Development of Empirical Relations for the Transversely Isotropic Properties of Zigzag, Armchair and Chiral Single-Walled Carbon Nanotubes. <i>Advanced Composites Letters</i> , 2012, 21, 096369351202100.	1.3	4
80	Nonlocal continuum mechanics formulation for axial, flexural, shear and contraction coupled wave propagation in single walled carbon nanotubes. <i>Latin American Journal of Solids and Structures</i> , 2012, 9, 497-514.	0.6	9
81	Wave propagation in single-walled carbon nanotube under longitudinal magnetic field using nonlocal Euler-Bernoulli beam theory. <i>Applied Mathematical Modelling</i> , 2012, 36, 4529-4538.	2.2	147
82	Temperature effects on wave propagation in nanoplates. <i>Composites Part B: Engineering</i> , 2012, 43, 1275-1281.	5.9	43
83	Guided wave based detection of damage in honeycomb core sandwich structures. <i>NDT and E International</i> , 2012, 49, 27-33.	1.7	38
84	Scale effects on buckling analysis of orthotropic nanoplates based on nonlocal two-variable refined plate theory. <i>Acta Mechanica</i> , 2012, 223, 395-413.	1.1	75
85	Lamb wave based detection of damage in a stiffener bonded to a plate. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
86	A Revisit to Capture the Entire Behavior of Ultrasonic Wave Dispersion Characteristics of Single Walled Carbon Nanotubes Based on Nonlocal Elasticity Theory and $\frac{1}{4}$ gge Shell Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 1933-1944.	0.4	3
87	Axial wave propagation in coupled nanorod system with nonlocal small scale effects. <i>Composites Part B: Engineering</i> , 2011, 42, 2013-2023.	5.9	50
88	Uncertainty analysis of vibrational frequencies of an incompressible liquid in a rectangular tank with and without a baffle using polynomial chaos expansion. <i>Acta Mechanica</i> , 2011, 220, 257-273.	1.1	5
89	Three-dimensional sloshing: A consistent finite element approach. <i>International Journal for Numerical Methods in Fluids</i> , 2011, 66, 345-376.	0.9	5
90	Ultrasonic wave characteristics of a monolayer graphene on silicon substrate. <i>Composite Structures</i> , 2011, 93, 1997-2009.	3.1	16

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91	Artificial Bee Colony (ABC) for multi-objective design optimization of composite structures. Applied Soft Computing Journal, 2011, 11, 489-499.	4.1	260
92	Nature inspired optimization techniques for the design optimization of laminated composite structures using failure criteria. Expert Systems With Applications, 2011, 38, 2489-2499.	4.4	16
93	Prediction of nonlocal scaling parameter for armchair and zigzag single-walled carbon nanotubes based on molecular structural mechanics, nonlocal elasticity and wave propagation. International Journal of Engineering Science, 2011, 49, 509-522.	2.7	88
94	Nonlocal wave propagation in rotating nanotube. Results in Physics, 2011, 1, 17-25.	2.0	69
95	Critical buckling temperature of single-walled carbon nanotubes embedded in a one-parameter elastic medium based on nonlocal continuum mechanics. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1185-1191.	1.3	67
96	Spectral Element Approach to Wave Propagation in Uncertain Composite Beam Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.0	1
97	Spectral Finite Element Formulation for Nanorods via Nonlocal Continuum Mechanics. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	22
98	Computational Techniques for Structural Health Monitoring. Springer Series in Reliability Engineering, 2011, , .	0.3	62
99	Ultrasonic Wave Dispersion Characteristics of Fluid-Filled Single-Walled Carbon Nanotubes Based on Nonclassical Shell Model. Advanced Science Letters, 2011, 4, 3480-3485.	0.2	3
100	Longitudinal Magnetic Field Effect on Nonlocal Ultrasonic Vibration Analysis of Single-Walled Carbon Nanotubes Based on Wave Propagation Approach. Advanced Science Letters, 2011, 4, 3382-3389.	0.2	10
101	Time Reversal Health Monitoring of Composite Plates using Lamb waves. International Journal of Aerospace Innovations, 2011, 3, 131-142.	0.2	7
102	SURFACE EFFECTS ON NONLOCAL CRITICAL BUCKLING TEMPERATURE OF NANOTUBES. International Journal of Nanomechanics Science and Technology, 2011, 2, 295-308.	0.5	2
103	Application of the Finite Element Method in SHM. Springer Series in Reliability Engineering, 2011, , 157-175.	0.3	0
104	Theoretical Estimation of Length Dependent In-Plane Stiffness of Single Walled Carbon Nanotubes Using the Nonlocal Elasticity Theory. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2349-2354.	0.4	10
105	Spectral element approach to wave propagation in uncertain beam structures. Journal of Mechanics of Materials and Structures, 2010, 5, 637-659.	0.4	10
106	Structural stability of slender aerospace vehicles: Part II. International Journal of Mechanical Sciences, 2010, 52, 1145-1157.	3.6	4
107	A Legendre spectral element model for sloshing and acoustic analysis in nearly incompressible fluids. Journal of Computational Physics, 2010, 229, 2605-2624.	1.9	0
108	Nonlocal scale effects on ultrasonic wave characteristics of nanorods. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1601-1604.	1.3	78

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109	Terahertz wave characteristics of a single-walled carbon nanotube containing a fluid flow using the nonlocal Timoshenko beam model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1706-1712.	1.3	60
110	High accuracy curve fits for chirality, length and diameter dependent initial modulus of single walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 252-255.	1.3	5
111	Strong nonlocalization induced by small scale parameter on terahertz flexural wave dispersion characteristics of a monolayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 423-430.	1.3	25
112	Structural stability of slender aerospace vehicles: Part I. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 937-951.	3.6	7
113	Rapid localization of damage using a circular sensor array and Lamb wave based triangulation. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2929-2946.	4.4	84
114	Time Domain Characteristics of Electrical Measures for a Piezoelectric Thin Film to Identify Defects in the Substrate. <i>Structural Health Monitoring</i> , 2010, 9, 173-192.	4.3	2
115	Ultrasonic wave characteristics of nanorods via nonlocal strain gradient models. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	67
116	A geodesic-based triangulation technique for damage location in metallic and composite plates. <i>Smart Materials and Structures</i> , 2010, 19, 115010.	1.8	13
117	Investigation of the effect of nonlocal scale on ultrasonic wave dispersion characteristics of a monolayer graphene. <i>Computational Materials Science</i> , 2010, 49, 734-742.	1.4	34
118	A WAVELET SPECTRAL ELEMENT FOR LAMINATED COMPOSITE PLATE WITH DELAMINATION AND TRANSVERSE DAMAGE. , 2010, , .		0
119	Development of a New Finite Element for the Analysis of Sandwich Beams with Soft Core. <i>Journal of Sandwich Structures and Materials</i> , 2010, 12, 649-683.	2.0	11
120	Characterization Of Cracks And Delaminations Using Pwas Ad Lamb Wave Based Time-Frequency Methods. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2010, 3, 703-735.	0.4	10
121	Acoustic emission source location in composite structure by Voronoi construction using geodesic curve evolution. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 2324-2330.	0.5	12
122	Acoustic emission source location and damage detection in a metallic structure using a graph-theory-based geodesic approach. <i>Smart Materials and Structures</i> , 2009, 18, 115022.	1.8	17
123	Quantum behaved Particle Swarm Optimization (QPSO) for multi-objective design optimization of composite structures. <i>Expert Systems With Applications</i> , 2009, 36, 11312-11322.	4.4	164
124	Time reversal technique for health monitoring of metallic structure using Lamb waves. <i>Ultrasonics</i> , 2009, 49, 696-705.	2.1	100
125	On the sensitivity of elastic waves due to structural damages: Time-frequency based indexing method. <i>Journal of Sound and Vibration</i> , 2009, 320, 915-941.	2.1	37
126	Wave propagation in multi-walled carbon nanotube. <i>Computational Materials Science</i> , 2009, 45, 411-418.	1.4	16



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127	Nonlocal scale effects on wave propagation in multi-walled carbon nanotubes. Computational Materials Science, 2009, 47, 526-538.	1.4	107
128	Structural Dynamics Research in India. , 2009, , .		1
129	Lamb wave based identification and parameter estimation of corrosion in metallic plate structure using a circular PWAS array. Proceedings of SPIE, 2009, , .	0.8	5
130	Vector evaluated particle swarm optimization (VEPSO) for multi-objective design optimization of composite structures. Computers and Structures, 2008, 86, 1-14.	2.4	94
131	Design optimization of composites using genetic algorithms and failure mechanism based failure criterion. Composite Structures, 2008, 83, 354-367.	3.1	79
132	Artificial immune system for multi-objective design optimization of composite structures. Engineering Applications of Artificial Intelligence, 2008, 21, 1416-1429.	4.3	53
133	Wave Propagation Analysis in Single-Walled Carbon Nanotube-Polymer Composite with Imperfect Bonding. , 2008, , .		0
134	Wave Characteristics of Multi-Walled Carbon Nanotubes. , 2008, , .		1
135	Ultrasonic Signal Sensitivity due to Crack Parameters and Computational Approach Based on Wavelet Energy Correlated Damage Index. , 2008, , .		0
136	Nonlinear Spectral Methods for the Analysis of Wave Propagation. , 2008, , .		3
137	Wave Propagation Analysis in Anisotropic Plate Using Wavelet Spectral Element Approach. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	23
138	Spectral and Perturbation Analysis of First-Order Beams With Notch Damage. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	3
139	Damage Detection Based on Damage Force Indicator Using Reduced-Order FE Models. International Journal for Computational Methods in Engineering Science and Mechanics, 2008, 9, 154-170.	1.4	5
140	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: I. Mode I. Smart Materials and Structures, 2008, 17, 025037.	1.8	7
141	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: II. Mode II. Smart Materials and Structures, 2008, 17, 025038.	1.8	8
142	Perturbation technique for wave propagation analysis in a notched beam using wavelet spectral element modeling. Journal of Mechanics of Materials and Structures, 2008, 3, 659-673.	0.4	2
143	A wave-based damage index for the analysis of the filtered response of damaged beams. Journal of Mechanics of Materials and Structures, 2008, 3, 1605-1623.	0.4	4
144	Analysis of Wave Propagation in Beams With Transverse and Lateral Cracks Using a Weakly Formulated Spectral Method. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 119-127.	1.1	19

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145	Nano-composite insert in 1D waveguides for control of elastic power flow. Nanotechnology, 2007, 18, 035706.	1.3	1
146	Wave propagation in imperfectly bonded single walled carbon nanotube-polymer composites. Journal of Applied Physics, 2007, 102, .	1.1	12
147	MODIFIED VIRTUAL CRACK-CLOSURE TECHNIQUE USING SPECTRAL ELEMENT METHOD. International Journal of Computational Methods, 2007, 04, 109-139.	0.8	4
148	Wavelet spectral element for wave propagation studies in pressure loaded axisymmetric cylinders. Journal of Mechanics of Materials and Structures, 2007, 2, 753-772.	0.4	8
149	Vibrational characteristics of single-walled carbon-nanotube: Time and frequency domain analysis. Journal of Applied Physics, 2007, 101, 114320.	1.1	32
150	Control of elastic power flow in 1-D waveguides using nanocomposite inserts. , 2007, , .		0
151	Damage Measure Formulation Based on the Filtered Spectral Approximation of the Structural Response. , 2007, , .		1
152	The partition of unity finite element method for elastic wave propagation in Reissnerâ€™Mindlin plates. International Journal for Numerical Methods in Engineering, 2007, 70, 1451-1479.	1.5	9
153	A superconvergent finite element for composite beams with embedded magnetostrictive patches. Composite Structures, 2007, 79, 315-330.	3.1	9
154	Free vibration and wave propagation analysis of uniform and tapered rotating beams using spectrally formulated finite elements. International Journal of Solids and Structures, 2007, 44, 5875-5893.	1.3	86
155	Design and analysis of a flat accelerometer-based force balance system for shock tunnel testing. Measurement: Journal of the International Measurement Confederation, 2007, 40, 93-106.	2.5	42
156	Wavelet based spectral finite element modelling and detection of de-lamination in composite beams. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 1721-1740.	1.0	29
157	Wave propagation analysis in carbon nanotube embedded composite using wavelet based spectral finite elements. Smart Materials and Structures, 2006, 15, 104-122.	1.8	19
158	Spectral element based model for wave propagation analysis in multi-wall carbon nanotubes. International Journal of Solids and Structures, 2006, 43, 279-294.	1.3	32
159	Wave propagation analysis in anisotropic and inhomogeneous uncracked and cracked structures using pseudospectral finite element method. International Journal of Solids and Structures, 2006, 43, 4997-5031.	1.3	61
160	A quasi-three-dimensional approach to modeling and analysis of a constrained piezoelectric thin film. Acta Materialia, 2006, 54, 5529-5540.	3.8	3
161	A higher-order finite waveguide model for spectral analysis of composite structures. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1116-1135.	3.4	11
162	Large deformation analysis for anisotropic and inhomogeneous beams using exact linear static solutions. Composite Structures, 2006, 72, 91-104.	3.1	30

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163	Wavelet based spectral finite element for analysis of coupled wave propagation in higher order composite beams. <i>Composite Structures</i> , 2006, 73, 263-277.	3.1	29
164	Extraction of wave characteristics from wavelet-based spectral finite element formulation. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 2046-2079.	4.4	38
165	A Spectral Finite Element Model for Wave Propagation Analysis in Laminated Composite Plate. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2006, 128, 477-488.	1.0	51
166	Approximate Spectral Element for Wave Propagation Analysis in Inhomogenous Layered Media. <i>AIAA Journal</i> , 2006, 44, 1676-1685.	1.5	10
167	Estimation of Dynamic Fracture Parameters in a Transverse Cracked Composite Beam using a Simplified Diagnostic Wave Propagation Model. <i>Structural Health Monitoring</i> , 2006, 5, 99-124.	4.3	9
168	Multiscale Finite Element Modelling of Pattern Formation in Magnetostrictive Composite Thin Film. <i>International Journal for Multiscale Computational Engineering</i> , 2006, 4, 337-349.	0.8	1
169	Analysis of Constrained Piezoelectric Layer: A Two-Dimensional Coupled Electromechanical Model. <i>Ferroelectrics</i> , 2005, 329, 131-137.	0.3	4
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