Vebil Yildirim

List of Publications by Year
in descending order

47 papers	670 citations	516710 16 h-index	580821 25 g-index
48 all docs	48 docs citations	48 times ranked	217 citing authors

#	Article	IF	Citations
1	Buckling Analysis of Rectangular Beams Having Ceramic Liners at Its Top and Bottom Surfaces with the help of the Exact Transfer Matrix. International Journal of Engineering and Applied Sciences, 2021, 13, 17-35.	0.1	0
2	The best grading pattern selection for the axisymmetric elastic response of pressurized inhomogeneous annular structures (sphere/cylinder/annulus) including rotation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	11
3	Exact Axisymmetric Thermal Analysis of Functionally Graded Disks with Continuously Hyperbolically Varying Thickness. International Journal of Engineering Technologies IJET, 2020, 6, 1-12.	0.2	0
4	The Complementary Functions Method Solution to the Functionally Graded Polar Orthotropic Rotating Hyperbolic Disks with Both Radially and Circumferentially Aligned Fibers. International Journal of Engineering and Applied Sciences, 2019, 10, 276-290.	0.1	3
5	Centrifugal Force-Induced Elastic Field for a Stress-Free Annulus Made of Functionally Graded Polar Orthotropic Material from Circular Plates to Rings. Athens Journal of Sciences, 2019, 6, 231-252.	0.2	0
6	Numerical/analytical solutions to the elastic response of arbitrarily functionally graded polar orthotropic rotating discs. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	12
7	A Parametric Study on the Centrifugal Force-Induced Stress and Displacements in Power-Law Graded Hyperbolic Discs. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	10
8	Closed-Form Formulas for Hyperbolically Tapered Rotating Disks Made of Traditional Materials under Combined Thermal and Mechanical Loads. International Journal of Engineering and Applied Sciences, 2018, 10, 73-92.	0.1	2
9	Several Stress Resultant and Deflection Formulas for Euler-Bernoulli Beams under Concentrated and Generalized Power/Sinusoidal Distributed Loads. International Journal of Engineering and Applied Sciences, 2018, 10, 35-63.	0.1	2
10	Some closed-form bending formulas for elastically restrained Euler-Bernoulli beams under point and uniformly distributed loads. Journal of Applied Mathematics and Computational Mechanics, 2018, 17, 97-109.	0.7	0
11	Heat-Induced, Pressure-Induced and Centrifugal-Force-Induced Exact Axisymmetric Thermo-Mechanical Analyses in a Thick-Walled Spherical Vessel, an Infinite Cylindrical Vessel, and a Uniform Disk Made of an Isotropic and Homogeneous Material. International Journal of Engineering and Applied Sciences, 2017, 9, 66-66.	0.1	7
12	Exact Thermal Analysis of Functionally Graded Cylindrical and Spherical Vessels. International Journal of Engineering and Applied Sciences, 2017, 9, 112-112.	0.1	6
13	Effects of Inhomogeneity and Thickness Parameters on the Elastic Response of a Pressurized Hyperbolic Annulus/Disc Made of Functionally Graded Material. International Journal of Engineering and Applied Sciences, 2017, 9, 36-50.	0.1	5
14	Exact Radial Natural Frequencies of Functionally Graded Hollow Long Cylinders. International Journal of Engineering and Applied Sciences, 2017, 9, 28-41.	0.1	0
15	Axial Static Load Dependence Free Vibration Analysis of Helical Springs Based on the Theory of Spatially Curved Bars. Latin American Journal of Solids and Structures, 2016, 13, 2852-2875.	1.0	7
16	Exact determination of the global tip deflection of both close-coiled and open-coiled cylindrical helical compression springs having arbitrary doubly-symmetric cross-sections. International Journal of Mechanical Sciences, 2016, 115-116, 280-298.	6.7	15
17	Free vibration/buckling analyses of noncylindrical initially compressed helical composite springs. Mechanics Based Design of Structures and Machines, 2016, 44, 340-353.	4.7	22
18	Direct application of the Complementary Functions Method (CFM) to the static analysis of rotating disks with both parabolic-varying thickness profile and functionally graded (FG) material. Research on Engineering Structures and Materials, 2016, , .	0.4	3

#	Article	IF	Citations
19	On the linearized disturbance dynamic equations for buckling and free vibration of cylindrical helical coil springs under combined compression and torsion. Meccanica, 2012, 47, 1015-1033.	2.0	15
20	VIBRATION BEHAVIOR OF COMPOSITE BEAMS WITH RECTANGULAR SECTIONS CONSIDERING THE DIFFERENT SHEAR CORRECTION FACTORS. , 2006, , 531-536.		1
21	A parametric study on the natural frequencies of unidirectional composite conical springs. Communications in Numerical Methods in Engineering, 2004, 20, 207-227.	1.3	20
22	EXPRESSIONS FOR PREDICTING FUNDAMENTAL NATURAL FREQUENCIES OF NON-CYLINDRICAL HELICAL SPRINGS. Journal of Sound and Vibration, 2002, 252, 479-491.	3.9	29
23	Common effects of the rotary inertia and shear deformation on the out-of-plane natural frequencies of composite circular bars. Composites Part B: Engineering, 2001, 32, 687-695.	12.0	10
24	FREE VIBRATION OF UNIAXIAL COMPOSITE CYLINDRICAL HELICAL SPRINGS WITH CIRCULAR SECTION. Journal of Sound and Vibration, 2001, 239, 321-333.	3.9	20
25	Influence of the Longitudinal to Transverse Moduli Ratio on the Resonance Frequencies of Symmetric Cross-Ply Laminated Beams Undergoing Out-Of-Plane Vibrations. Journal of the Mechanical Behavior of Materials, 2001, 12, 211-224.	1.8	0
26	Free Vibration Characteristics of Composite Barrel and Hyperboloidal Coil Springs. Mechanics of Advanced Materials and Structures, 2001, 8, 205-217.	2.6	12
27	Out-of-plane bending and torsional resonance frequencies and mode shapes of symmetric cross-ply laminated beams including shear deformation and rotary inertia effects. Communications in Numerical Methods in Engineering, 2000, 16, 67-74.	1.3	6
28	Linear free vibration analysis of cross-ply laminated cylindrical helical springs. International Journal of Mechanical Sciences, 2000, 42, 1153-1169.	6.7	14
29	Investigation of the rotary inertia and shear deformation effects on the out-of-plane bending and torsional natural frequencies of laminated beams. Composite Structures, 2000, 49, 313-320.	5.8	37
30	Effect of the longitudinal to transverse moduli ratio on the in-plane natural frequencies of symmetric cross-ply laminated beams by the stiffness method. Composite Structures, 2000, 50, 319-326.	5.8	22
31	In-Plane Free Vibration of Symmetric Cross-Ply Laminated Circular Bars. Journal of Engineering Mechanics - ASCE, 1999, 125, 630-636.	2.9	10
32	Out-Of-Plane Free Vibration Characteristics of Symmetric Cross-Ply Laminated Composite Arches with Deep Curvature. Journal of the Mechanical Behavior of Materials, 1999, 10, 165-186.	1.8	2
33	Governing equations of initially twisted elastic space rods made of laminated composite materials. International Journal of Engineering Science, 1999, 37, 1007-1035.	5.0	39
34	An efficient numerical method for predicting the natural frequencies of cylindrical helical springs. International Journal of Mechanical Sciences, 1999, 41, 919-939.	6.7	49
35	ROTARY INERTIA, AXIAL AND SHEAR DEFORMATION EFFECTS ON THE IN-PLANE NATURAL FREQUENCIES OF SYMMETRIC CROSS-PLY LAMINATED CIRCULAR ARCHES. Journal of Sound and Vibration, 1999, 224, 575-589.	3.9	25
36	Free vibration analysis of symmetric cross-ply laminated composite beams with the help of the transfer matrix approach. Communications in Numerical Methods in Engineering, 1999, 15, 651-660.	1.3	27

#	Article	IF	Citations
37	The Effect of the Longitudinal to Transverse Moduli Ratio on the Natural Frequencies of Symmetric Cross-Ply Laminated Cylindrical Helical Springs. Journal of Mechanical Design, Transactions of the ASME, 1999, 121, 634-639.	2.9	1
38	Free vibration analysis of symmetric crossâ€ply laminated composite beams with the help of the transfer matrix approach. Communications in Numerical Methods in Engineering, 1999, 15, 651-660.	1.3	0
39	A computer program for the free vibration analysis of elastic arcs. Computers and Structures, 1997, 62, 475-485.	4.4	22
40	FREE VIBRATION ANALYSIS OF NON-CYLINDRICAL COIL SPRINGS BY COMBINED USE OF THE TRANSFER MATRIX AND THE COMPLEMENTARY FUNCTIONS METHODS. Communications in Numerical Methods in Engineering, 1997, 13, 487-494.	1.3	35
41	NATURAL FREQUENCIES OF HELICAL SPRINGS OF ARBITRARY SHAPE. Journal of Sound and Vibration, 1997, 204, 311-329.	3.9	46
42	INVESTIGATION OF PARAMETERS AFFECTING FREE VIBRATION FREQUENCY OF HELICAL SPRINGS. International Journal for Numerical Methods in Engineering, 1996, 39, 99-114.	2.8	51
43	The complementary functions method for the element stiffness matrix of arbitrary spatial bars of helicoidal axes. International Journal for Numerical Methods in Engineering, 1995, 38, 1031-1056.	2.8	27
44	A new method for the element stiffness matrix of arbitrary planar bars. Computers and Structures, 1994, 52, 679-691.	4.4	12
45	Statical analysis of elastically and continuously supported helicoidal structures by the transfer and stiffness matrix methods. Computers and Structures, 1993, 49, 663-677.	4.4	26
46	Application of the Complementary Functions Method to an Accurate Elasticity Solution for the Radially Functionally Graded (FG) Rotating Disks with Continuously Variable Thickness and Density. Solid State Phenomena, 0, 251, 100-105.	0.3	0
47	Thermomechanical Characteristics of a Functionally Graded Mounted Uniform Disc with/without Rigid Casing. Journal of Aerospace Technology and Management, 0, , .	0.3	5