Rab Nawaz

List of Publications by Year
in descending order

44 papers	542 citations	759233 12 h-index	839539 18 g-index
45 all docs	45 docs citations	45 times ranked	130 citing authors

#	Article	IF	Citations
1	Scattering characteristics of planar trifurcated waveguide structure containing multiple discontinuities. Waves in Random and Complex Media, 2022, 32, 2776-2795.	2.7	13
2	Scattering analysis of a partitioned membrane-bounded cavity with material contrast. Journal of the Acoustical Society of America, 2022, 151, 31-44.	1.1	7
3	Asymptotic approach to antiâ€plane dynamic problem of asymmetric threeâ€layered composite plate. Mathematical Methods in the Applied Sciences, 2021, 44, 10933-10947.	2.3	11
4	An asymptotic investigation of the dynamics and dispersion of an elastic five-layered plate for anti-plane shear vibration. Journal of Engineering Mathematics, 2021, 128, 1.	1.2	15
5	Scattering through a flexural trifurcated waveguide by varying the material properties. Physica Scripta, 2021, 96, 095208.	2.5	13
6	Dispersion of elastic waves in an inhomogenous multilayered plate over a Winkler elastic foundation with imperfect interfacial conditions. Physica Scripta, 2021, 96, 125026.	2.5	13
7	Effects of thermal stress, magnetic field and rotation on the dispersion of elastic waves in an inhomogeneous five-layered plate with alternating components. Science Progress, 2020, 103, 003685042094046.	1.9	13
8	Wave scattering of non-planar trifurcated waveguide by varying the incident through multiple regions. Advances in Mechanical Engineering, 2020, 12, 168781402097528.	1.6	11
9	Asymptotic analysis of an anti-plane shear dispersion of an elastic five-layered structure amidst contrasting properties. Archive of Applied Mechanics, 2020, 90, 1875-1892.	2.2	14
10	On the attenuation of fluidâ€"structure coupled modes in a non-planar waveguide. Mathematics and Mechanics of Solids, 2020, 25, 1831-1850.	2.4	15
11	Scattering characteristics of non-planar trifurcated waveguides. Meccanica, 2020, 55, 977-988.	2.0	12
12	Investigating the viscous damping effects on the propagation of Rayleigh waves in a three-layered inhomogeneous plate. Physica Scripta, 2020, 95, 065224.	2.5	15
13	DISPERSION OF ELASTIC WAVES IN AN ASYMMETRIC THREE-LAYERED STRUCTURE IN THE PRESENCE OF MAGNETIC AND ROTATIONAL EFFECTS. Progress in Electromagnetics Research M, 2020, 91, 165-177.	0.9	12
14	The scattering analysis of trifurcated waveguide involving structural discontinuities. Advances in Mechanical Engineering, 2019, 11, 168781401982928.	1.6	11
15	Scattering analysis of a partitioned wave-bearing cavity containing different material properties. Physica Scripta, 2019, 94, 115223.	2.5	16
16	On mode-matching analysis of fluid-structure coupled wave scattering between two flexible waveguides. Canadian Journal of Physics, 2017, 95, 581-589.	1.1	23
17	Reflected field analysis of softâ€"hard pentafurcated waveguide. Advances in Mechanical Engineering, 2017, 9, 168781401769269.	1.6	2
18	Radiation of sound in a semi-infinite hard duct inserted axially into a larger infinite lined duct. Analysis and Mathematical Physics, 2017, 7, 525-548.	1.3	4

#	Article	IF	Citations
19	Diffraction of electromagnetic plane wave by a slit in a homogeneous bi-isotropic medium. Waves in Random and Complex Media, 2017, 27, 325-338.	2.7	8
20	Fluid-structure coupled wave scattering in a flexible duct at the junction of planar discontinuities. Advances in Mechanical Engineering, 2017, 9, 168781401771318.	1.6	3
21	Magnetohydrodynamics flow of nanofluid due to stretching/shrinking surface with slip effect. Advances in Mechanical Engineering, 2017, 9, 168781401774026.	1.6	14
22	A note on elastic noise source localization. JVC/Journal of Vibration and Control, 2016, 22, 1889-1894.	2.6	4
23	Finite difference-finite element approach for solving fractional Oldroyd-B equation. Advances in Difference Equations, 2016, 2016, .	3.5	12
24	Attenuation of dissipative device involving coupled wave scattering and change in material properties. Applied Mathematics and Computation, 2016, 290, 154-163.	2.2	17
25	Scattering of cylindrical Gaussian pulse near an absorbing half-plane in a moving fluid. Boundary Value Problems, 2016, 2016, .	0.7	1
26	Magnetohydrodynamic (MHD) flow analysis of second grade fluids in a porous medium with prescribed vorticity. AIP Advances, 2015, 5, .	1.3	22
27	Numerical study of two dimensional unsteady flow of an anomalous Maxwell fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1120-1137.	2.8	8
28	Closed form solution of electromagnetic wave diffraction problem in a homogeneous bi€isotropic medium. Mathematical Methods in the Applied Sciences, 2015, 38, 176-187.	2.3	15
29	Numerical study of a thin film flow of fourth grade fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 929-940.	2.8	18
30	Acoustic propagation in two-dimensional waveguide for membrane bounded ducts. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 421-433.	3.3	27
31	Plane Wave Diffraction by a Finite Plate with Impedance Boundary Conditions. PLoS ONE, 2014, 9, e92566.	2.5	9
32	Point source diffraction by a slit in a moving fluid. Waves in Random and Complex Media, 2014, 24, 357-375.	2.7	12
33	Electromagnetic Time Reversal Algorithms and Source Localization in Lossy Dielectric Media. Communications in Theoretical Physics, 2014, 62, 779-789.	2.5	7
34	Localization of extended current source with finite frequencies. Comptes Rendus Mathematique, 2014, 352, 917-921.	0.3	4
35	An intermediate range solution to a diffraction problem with impedance conditions. Journal of Modern Optics, 2014, 61, 1324-1332.	1.3	11
36	Acoustic Scattering in Flexible Waveguide Involving Step Discontinuity. PLoS ONE, 2014, 9, e103807.	2.5	26

#	Article	IF	Citations
37	An exact and asymptotic analysis of a diffraction problem. Meccanica, 2013, 48, 653-662.	2.0	3
38	Scattering of a fluid-structure coupled wave at a flanged junction between two flexible waveguides. Journal of the Acoustical Society of America, 2013, 134, 1939-1949.	1.1	61
39	A note on acoustic diffraction by an absorbing finite strip in a moving fluid. Indian Journal of Pure and Applied Mathematics, 2012, 43, 571-589.	0.5	1
40	Sound due to an impulsive line source. Computers and Mathematics With Applications, 2010, 60, 3123-3129.	2.7	4
41	Diffraction of an impulsive line source with wake. Physica Scripta, 2010, 82, 045402.	2.5	4
42	Diffraction of sound waves by a finite barrier in a moving fluid. Journal of Mathematical Analysis and Applications, 2009, 349, 245-258.	1.0	12
43	Line-source diffraction by a slit in a moving fluid. Canadian Journal of Physics, 2009, 87, 1139-1149.	1.1	9
44	Analysis of high frequency EM-waves diffracted by a finite strip with impedance in anisotropic medium. Waves in Random and Complex Media, 0, , 1-19.	2.7	4