

Rab Nawaz

List of Publications by Year in descending order

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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 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
2	Acoustic propagation in two-dimensional waveguide for membrane bounded ducts. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 421-433.	3.3	27
3	Acoustic Scattering in Flexible Waveguide Involving Step Discontinuity. PLoS ONE, 2014, 9, e103807.	2.5	26
4	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
5	Magnetohydrodynamic (MHD) flow analysis of second grade fluids in a porous medium with prescribed vorticity. AIP Advances, 2015, 5, .	1.3	22
6	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
7	Attenuation of dissipative device involving coupled wave scattering and change in material properties. Applied Mathematics and Computation, 2016, 290, 154-163.	2.2	17
8	Scattering analysis of a partitioned wave-bearing cavity containing different material properties. Physica Scripta, 2019, 94, 115223.	2.5	16
9	Closed form solution of electromagnetic wave diffraction problem in a homogeneous bi-anisotropic medium. Mathematical Methods in the Applied Sciences, 2015, 38, 176-187.	2.3	15
10	On the attenuation of fluid-structure coupled modes in a non-planar waveguide. Mathematics and Mechanics of Solids, 2020, 25, 1831-1850.	2.4	15
11	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
12	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
13	Magnetohydrodynamics flow of nanofluid due to stretching/shrinking surface with slip effect. Advances in Mechanical Engineering, 2017, 9, 168781401774026.	1.6	14
14	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
15	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
16	Scattering through a flexural trifurcated waveguide by varying the material properties. Physica Scripta, 2021, 96, 095208.	2.5	13
17	Scattering characteristics of planar trifurcated waveguide structure containing multiple discontinuities. Waves in Random and Complex Media, 2022, 32, 2776-2795.	2.7	13
18	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

#	ARTICLE	IF	CITATIONS
19	Diffraction of sound waves by a finite barrier in a moving fluid. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 349, 245-258.	1.0	12
20	Point source diffraction by a slit in a moving fluid. <i>Waves in Random and Complex Media</i> , 2014, 24, 357-375.	2.7	12
21	Finite difference-finite element approach for solving fractional Oldroyd-B equation. <i>Advances in Difference Equations</i> , 2016, 2016, .	3.5	12
22	Scattering characteristics of non-planar trifurcated waveguides. <i>Meccanica</i> , 2020, 55, 977-988.	2.0	12
23	DISPERSION OF ELASTIC WAVES IN AN ASYMMETRIC THREE-LAYERED STRUCTURE IN THE PRESENCE OF MAGNETIC AND ROTATIONAL EFFECTS. <i>Progress in Electromagnetics Research M</i> , 2020, 91, 165-177.	0.9	12
24	An intermediate range solution to a diffraction problem with impedance conditions. <i>Journal of Modern Optics</i> , 2014, 61, 1324-1332.	1.3	11
25	The scattering analysis of trifurcated waveguide involving structural discontinuities. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401982928.	1.6	11
26	Wave scattering of non-planar trifurcated waveguide by varying the incident through multiple regions. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402097528.	1.6	11
27	Asymptotic approach to anti-plane dynamic problem of asymmetric three-layered composite plate. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 10933-10947.	2.3	11
28	Line-source diffraction by a slit in a moving fluid. <i>Canadian Journal of Physics</i> , 2009, 87, 1139-1149.	1.1	9
29	Plane Wave Diffraction by a Finite Plate with Impedance Boundary Conditions. <i>PLoS ONE</i> , 2014, 9, e92566.	2.5	9
30	Numerical study of two dimensional unsteady flow of an anomalous Maxwell fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2015, 25, 1120-1137.	2.8	8
31	Diffraction of electromagnetic plane wave by a slit in a homogeneous bi-isotropic medium. <i>Waves in Random and Complex Media</i> , 2017, 27, 325-338.	2.7	8
32	Electromagnetic Time Reversal Algorithms and Source Localization in Lossy Dielectric Media. <i>Communications in Theoretical Physics</i> , 2014, 62, 779-789.	2.5	7
33	Scattering analysis of a partitioned membrane-bounded cavity with material contrast. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 31-44.	1.1	7
34	Sound due to an impulsive line source. <i>Computers and Mathematics With Applications</i> , 2010, 60, 3123-3129.	2.7	4
35	Diffraction of an impulsive line source with wake. <i>Physica Scripta</i> , 2010, 82, 045402.	2.5	4
36	Localization of extended current source with finite frequencies. <i>Comptes Rendus Mathematique</i> , 2014, 352, 917-921.	0.3	4

#	ARTICLE	IF	CITATIONS
37	A note on elastic noise source localization. JVC/Journal of Vibration and Control, 2016, 22, 1889-1894.	2.6	4
38	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
39	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
40	An exact and asymptotic analysis of a diffraction problem. Meccanica, 2013, 48, 653-662.	2.0	3
41	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
42	Reflected field analysis of soft-hard pentafurcated waveguide. Advances in Mechanical Engineering, 2017, 9, 168781401769269.	1.6	2
43	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
44	Scattering of cylindrical Gaussian pulse near an absorbing half-plane in a moving fluid. Boundary Value Problems, 2016, 2016, .	0.7	1