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TITLE	CITED BY	YEAR
Substructural identification method without interface measurement CG Koh, K Shankar Journal of engineering mechanics 129 (7), 769-776	109	2003
Energy flow predictions in a structure of rigidly joined beams using receptance theory K Shankar, AJ Keane Journal of Sound and Vibration 185 (5), 867-890	78	1995
Effect of high strain rate on glass/carbon/hybrid fiber reinforced epoxy laminated composites K Naresh, K Shankar, BS Rao, R Velmurugan Composites Part B: Engineering 100, 125-135	69	2016
Heat extraction from non-convective and lower convective zones of the solar pond: a transient study A Date, Y Yaakob, A Date, S Krishnapillai, A Akbarzadeh Solar Energy 97, 517-528	66	2013
Application of a hybrid of particle swarm and genetic algorithm for structural damage detection S Sandesh, K Shankar Inverse Problems in Science and Engineering; Formerly Inverse Problems in ...	49	2010
Vibrational energy flow analysis using a substructure approach: The application of receptance theory to FEA and SEA K Shankar, AJ Keane Journal of Sound and Vibration 201 (4), 491-513	48	1997
Vibration of simply supported beams under a single moving load: a detailed study of cancellation phenomenon CPS Kumar, C Sujatha, K Shankar International Journal of Mechanical Sciences 99, 40-47	40	2015
Behaviour of magneto-electro-elastic sensors under transient mechanical loading A Daga, N Ganesan, K Shankar Sensors and Actuators A: Physical 150 (1), 46-55	39	2009
Transient dynamic response of cantilever magneto-electro-elastic beam using finite elements A Daga, N Ganesan, K Shankar International Journal for Computational Methods in Engineering Science and ...	35	2009

TITLE	CITED BY	YEAR
A study of the vibrational energies of two coupled beams by finite element and green function (receptance) methods K Shankar, AJ Keane Journal of Sound and Vibration 181 (5), 801-838	34	1995
Pyroelectric and pyromagnetic effects on behavior of magneto-electro-elastic plate P Kondaiah, K Shankar, N Ganesan Coupled systems mechanics 2 (1), 1-22	33	2013
Time domain identification of structural parameters and input time history using a substructural approach S Sandesh, K Shankar International Journal of Structural Stability and Dynamics 9 (02), 243-265	32	2009
Reliability analysis of tensile strengths using Weibull distribution in glass/epoxy and carbon/epoxy composites K Naresh, K Shankar, R Velmurugan Composites Part B: Engineering 133, 129-144	31	2018
Modeling and optimization of passive and semi-active suspension systems for passenger cars to improve ride comfort and isolate engine vibration R Jayachandran, S Krishnapillai Journal of Vibration and Control 19 (10), 1471-1479	29	2013
Statistical analysis of the tensile strength of GFRP, CFRP and hybrid composites K Naresh, K Shankar, R Velmurugan, NK Gupta Thin-Walled Structures 126, 150-161	28	2018
Studies on magneto-electro-elastic cantilever beam under thermal environment P Kondaiah, K Shankar, N Ganesan Coupled systems mechanics 1 (2), 205	27	2012
A hybrid neural network strategy for identification of structural parameters P Pillai, S Krishnapillai Structures & Infrastructure Engineering 6 (3), 379-391	20	2010
Dynamic response of multiphase magneto-electro-elastic sensors using 3D magnetic vector potential approach B Biju, N Ganesan, K Shankar IEEE Sensors Journal 11 (9), 2169-2176	18	2011
Vibration suppression of printed circuit boards using an external particle damper P Veeramuthuvel, KK Sairajan, K Shankar Journal of Sound and Vibration 366, 98-116	17	2016
Pyroelectric and pyromagnetic effects on multiphase magneto–electro–elastic cylindrical shells for axisymmetric temperature P Kondaiah, K Shankar, N Ganesan Smart materials and structures 22 (2), 025007	17	2012

