



Prof. Shankar Krishnapillai

Indian Institute of Technology Madras

Vibrations

Dynamics

Optimization

Machine design

GET MY OWN PROFILE

| | All | Since 2016 |
|-----------|------|------------|
| Citations | 1391 | 865 |
| h-index | 18 | 13 |
| i10-index | 41 | 22 |

| 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 | 79 | 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 | 75 | 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 | 69 | 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 ... | 50 | 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 | 41 | 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 |
| 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 | 35 | 2018 |

| TITLE | CITED BY | YEAR |
|--|----------|------|
| Pyroelectric and pyromagnetic effects on behavior of magneto-electro-elastic plate P Kondaiah, K Shankar, N Ganesan Coupled systems mechanics 2 (1), 1-22 | 35 | 2013 |
| 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 |
| 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 |
| 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 | 32 | 2018 |
| 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 |
| 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 |
| 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 |
| 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 | 18 | 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 | 18 | 2012 |
| Dynamic response of multiphase magnetoelectroelastic sensors using 3D magnetic vector potential approach B Biju, N Ganesan, K Shankar IEEE Sensors Journal 11 (9), 2169-2176 | 18 | 2011 |

