

Problem Statements Mechanical Dept.

1. Behaviour of slender columns of wood filled steel tube.
2. Behaviour of slender columns of adhesively bonded wood filled steel tube.
3. Finite element analysis of wood filled steel tube.
4. Finite element analysis of adhesively bonded wood filled steel tube.
5. Fatigue behaviour of teak wood under rotary bending
6. Design and development of fatigue testing machine
7. Mobile app operated door lock system
8. Areaca leaf plate making machine.
9. Rice husk nano charcoal powder machine
10. Identification of cracks in beams using vibrational analysis
11. Vibration response-based crack diagnosis in beam-like structures using fuzzy inference system
12. Crack Detection in Cantilever Beam Using Vibration Response
13. Crack detection of cantilever beam by natural frequency tracking using experimental and finite element analysis
14. Vibration Analysis of Cracked Beams Using the Finite Element Method.
15. Fault Diagnosis of Crack on Gearbox Using Vibration-Based Approaches.
16. The Detection of the Pipe Crack Utilizing the Operational Modal Strain Identified from Fiber Bragg Grating
17. Vibration analysis of a cracked beam
18. Crack detection and vibration behavior of cracked beams
19. A study on the crack detection in beams using linear and nonlinear normal modes
Crack detection of the cantilever beam using new triple hybrid algorithms based on Particle Swarm Optimization
20. Experimental determination of stress intensity factors in patched cracked plates
21. Numerical estimation of stress intensity factors in patched cracked plates
22. Theoretical and Numerical Study on Stress Intensity Factors for FRP-Strengthened Steel Plates with Double-Edged Cracks
23. Stress intensity factors for cracked steel girders strengthened with CFRP sheets.
24. Mode I stress intensity factor with various crack types
25. Calculation of stress intensity factor in two-dimensional cracks by strain energy density factor procedure.
26. Determination of stress intensity factors in cracked plates by the finite element method
27. Estimation of a stress intensity factor of a central cracked plate