
MECHANICAL SIMULATION PROJECT LIST-2018

- 1. MODELING & STRUCTURAL ANALYSIS OF ROTARY AIR LOCK VALVE
(STATIC)**
- 2. TEMPERATURE AND THERMAL STRESS ANALYSIS OF A CERAMIC-
COATED STEEL ALLOY PISTON USED IN A DIESEL ENGINE**
- 3. MODELING & STRUCTURAL ANALYSIS OF CRANKSHAFT**
- 4. DESIGN AND ANALYSIS OF A LARGE TRANSPORTABLE VACUUM
INSULATED CRYOGENIC VESSEL**
- 5. DESIGN AND ANALYSIS OF HEAVY-DUTY CHASSIS**
- 6. DESIGN AND ANALYSIS OF NACA0016 WING RIB AND STRINGERS BY USING
AL-7075 AND KEVLAR**
- 7. DESIGN AND ANALYSIS OF ROCKER ARM**
- 8. DESIGN AND ANALYSIS OF SELF HEALING COMPOSITE MATERIALS**
- 9. OPTIMIZATION OF FRICTION STIR WELDING TOOL**

10. **MODELING AND ANALYSIS OF SOLID VESSEL AND MULTILAYERED COMPOSITE PRESSURE VESSELS**
11. **MODELLING AND COST ESTIMATION OF REACTOR PRESSURE VESSEL**
12. **ANALYSIS OF PISTON AND CONNECTING ROD WITH DIFFERENT MATERIALS SUBJECTED TO STATIC AND THERMAL ANALYSIS**
13. **ANALYSIS OF SHOCK ABSORBER SPRING**
14. **STATIC AND DYNAMIC ANALYSIS OF AL-ALLOY-7075 COMPOSITE MATERIAL**
15. **STRUCTURAL AND THERMAL ANALYSIS OF BRAKE DRUM**
16. **DESIGN AND ANALYSIS OF AIRCRAFT WHEEL HUB BY USING FEM**
17. **STATIC AND DYNAMIC ANALYSIS OF SINGLE PLATE CLUTCH**
18. **DESIGN AND ANALYSIS OF CIRCULAR AND SQUARE ARM ROBOT**
19. **THERMAL ANALYSIS OF GAS TURBINE ROTOR BLADE**
20. **DESIGN AND ANALYSIS OF FUSELAGE WITH LATTICE STRUCTURE**
21. **DESIGN AND ANALYSIS OF AERO FINS IN AEROSPACE VEHICLES**

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22. **CONTACT PRESSURE ANALYSIS OF STEAM TURBINE CASING**
 23. **STATIC AND DYNAMIC ANALYSIS OF AIRCRAFT FUSELAGE SPLICE
JOINT**
 24. **Structural and thermal analysis of a gas turbine casing using finite element method**
 25. **STATIC AND DYNAMIC ANALYSIS OF BLACK HAWK UH-60 ROTOR
BLADE USING COMPOSITE MATERIALS**
 26. **DESIGN AND ANALYSIS OF HIGH-PRESSURE CASING OF A STEAM
TURBINE**
 27. **DESIGN AND ANALYSIS OF SWEEPED BACK WING BY USING CAD/CAE**
 28. **DESIGN AND ANALYSIS OF STEAM TURBINE ROTOR**
 29. **DESIGN AND ANALYSIS OF 2-MW WIND TURBINE TOWER**
 30. **STATIC AND DYNAMIC ANALYSIS OF MULTIPLATE CLUTCH**
 31. **DESIGN AND ANALYSIS OF AIRCRAFT FUSELAGE**
 32. **OPTIMISATION HEAT TRANSFER COMPUTER DESIGN**

33. DESIGN AND ANALYSIS OF LEAF SPRING BY USING STEEL, EN-9,

MONEL-400 MATERIALS

34. MODELING Structural Analysis of Crane Hook Using Finite Element Method for steel

35. DESIGN AND ANALYSIS OF RIVET LAP JOINT

36. Design and analysis of different height heat fins

37. Design and dynamic analysis of automobile bumper

38. DESIGN AND ANALYSIS OF AN ALLOY WHEELS

39. VIBRATION ANALYSIS OF A ROTARY COMPRESSOR

40. VIBRATION ANALYSIS OF COMPRESSOR HOUSING

41. MODAL ANALYSIS OF COMPRESSOR VALVE PLATES AND COMPARES

THE RESULTS BETWEEN THE TWO VALVE PLATES.

42. DESIGN AND ANALYSIS OF WAGON WHEEL AND TRACK

43. MODELING AND SIMULATION OF TEMPERATURE VARIATION OF BEARINGS IN A HYDROPOWER GENERATION UNIT

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44. **DESIGN AND ANALYSIS OF FUEL INJECTOR**
 45. **MODELLING AND ANALYSIS OF 2-STAGE REDUCTION GEAR BOX**
 46. **FATIGUE RESISTANCE ANALYSIS OF A FUEL INJECTION COMPONENT**
 47. **STRUCTURAL STATIC ANALYSIS OF CYLINDER HEAD**
 48. **CFD ANALYSIS OF DOUBLE PIPE PARALLEL FLOW HEAT EXCHANGER**
 49. **THERMAL ANALYSIS ON 4 CYLINDERS IN LINE ENGINE**
 50. **Design and analysis of intake manifold**
 51. **Design and analysis of Water Jet nozzle**
 52. **DESIGN AND ANALYSIS OF MACHINE TOOL ELEMENTS USING ANSYS**