

Lecture Notes Engineering Mechanics Dynamics Problem Solutions

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units definitions quality of materials forces acting on a machine general problem of design effect of temperature steady sudden and impulsive loads fatigue wohler's law factors of safety resilience sudden and impulsive loads tables of strength etc tension compression shearing modulus of rigidity bending moments of inertia modulus of section table of i z etc tables and curves on shearing face bending moments deflection directions for practical work practical problem i the knuckle joint bolts nuts screws forms of screw threads applications of bolts studs nuts etc stresses in bolts and screws friction and efficiency of screws number size and pitch of cylinder cover studs practical problem the screw jack compound stresses bending combined

with tension or compression combined stresses struts and columns euler s formula empirical formulae rankine s or gordon s straight line formula cotters design of cottered joint gib and cotter taper of the cotter the theory of the connecting rod practical problem iii strapped connecting rod practical problem iv the naval type of connecting rod shafts and journals torsion strength of shafts twist of shafts size of shaft for given horse power strength of journals and pins table of bearing pressures combined turning and bending moments couplings and bolts friction and lubrication of bearings general effect of friction dry and lubricated surfaces nominal or projected area of bearing work of friction value of u pressure in bearing forced lubrication anti friction metal thrust bearing notes on the design of crank shaft cross head pins etc practical problem v design of cylinders valve chests pistons rods pipes etc bureau of steam engineering check for strength of steel pistons design of cylindrical boilers screw propeller

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this is a complete set of lecture notes for a college level statics course they are in board note format with each square containing exactly what you as the instructor should write on the chalkboard the notes are in color with comments to the instructor in pink the topics include lesson 1 introduction to statics system of units methods of problem solution lesson 2 forces in a plane 2d force addition 2d problem and solution force resolution x and y components problem and solution lesson 3 equilibrium of a particle force resolution connection equilibrium problem and solution lesson 4 forces in space 3d force resolution 3d problem and solution force resultant 3d 1 problem and solution force resultant 3d 2 problem and solution lesson 5 equivalent systems of forces moment calculation 1 problem and solution moment calculation 2 problem and solution lesson 6 scalar product of two vectors scalar product problem and solution movement of a force about a particular axis problem and solution lesson 6 1 2 moment of a couple couple problem and solution equivalent couple problem and solution lesson 7 moments and forces equivalent forces problem and solution moving a force couple problem and solution wrench problem and solution lesson 8 equilibrium of rigid bodies finding reactions 1 problem and solution finding reactions 2 problem and solution finding reactions 3 problem and solution lesson 9 centroids and center of gravity problem 5 5 and solution lesson 10 determination of centroids problem 5 77 and solution lesson 11 analysis of structures zero force members lesson 12 method of sections method of sections problem and solution frames problem and solution machine problem and solution lesson 13 forces in beams reactions of a machine problem and solution m v diagrams 2 examples problems and solutions m v diagrams by integration 2 examples problems and solutions problem 5 14 and solution problem 5 23 and solution lesson 14 friction friction 1 problem and solution friction 2 problem and solution friction 3 problem and solution friction 4 problem and solution these are handwritten notes example problems are worked out and each example problem is included as a separate page suitable for creating a student handout sheet

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