

MACHINE DESIGN SOLVED PROBLEMS

1. Determine the estimated weight of fan A-36 steel plates size $\frac{1}{2} \times 4 \times 8$.
 a. 280 kgs
 b. 332 kgs **SOLUTION:**
 c. 301 kgs From faires p 574: density of
 d. 297 kgs steel = 0.284 lb/in³
 Weight = $\frac{1}{2} (4 \times 12)(8 \times 12)(0.284)$
 = 654.336 lbs.
 = 297 kg

2. Determine the estimated weight of A-36 steel plates size $3/16 \times 6' \times 20'$.
 a. 919 lbs
 b. 1012 lbs **SOLUTION:**
 c. 829 lbs From faires p 574: density of steel = 0.284 lb/in³
 d. 735 lbs Weight = $(3/16) (6 \times 12)(20 \times 12)(0.284) = 920$ lbs.

3. The minimum clearance allowed to meshing spur gears with a circular pitch of .1571 and diameter pitch of 20. The spur gear have 25 teeth.
 a. .007855
 b. .007558 **SOLUTION:**
 c. .008578 Clearance = $0.1571 / 20 = 0.007855$
 d. .007585

4. A cylindrical tank with 10" inside diameter contains oxygen gas at 2500 psi. Calculate the required wall thickness in (mm) under stress of 28,000 psi .
 a. 11.44mm
 b. 11.34mm **SOLUTION:**
 c. 10.6 mm $s_t = PD / 2t$
 d. 10.3 mm $28,000 = 2500(10) / 2t$
 $t = 0.4464$ in. = 11.34 mm

5. A 3"Ø diameter short shaft carrying 2 pulleys close to the bearings transmit how much horsepower if the shaft makes 280 rpm.
 a. 199 Hp
 b. 198 Hp **SOLUTION:**
 c. 200 Hp From PSME Code p 18:
 d. 210 Hp $P = D^3 N / 38 = 3^3(280) / 38 = 199$ Hp

6. Find the horsepower capacity of a standard A60 size V-Belt for a drive in which the pitch diameter of a small sheave is 4" and that by the large sheave is 10 inches. The small sheaves is connected to a drive motor of 3 Hp x 1750 rpm.
 a. 1.8326 b. 1.90 c. 1.56 d. 1.48
SOLUTION:
 Reference form PSME code pp 19-23
 EP Rating: $= X^{2.75} - (YS/d_s) - ZS^2$
 Where from Table 3.6:
 $X = 1.945$ $S = 3.14 D N / 1000 = (3.14)(4/12) (1750) / 1000$
 $Y = 3.801$ $S = 1.8326$
 $Z = 0.0136$

Machine Design Problems And Solutions

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Machine Design Problems And Solutions :

Machine Design Problem Solver, 1988 MACHINE DESIGN GOPE, P. C., 2012-02-03 This comprehensive text on principles and practice of mechanical design discusses the concepts procedures data tools and analytical methodologies needed to perform design calculations for the most frequently encountered mechanical elements such as shafts gears belt rope and chain drives bearings springs joints couplings brakes and clutches flywheels as well as design calculations of various IC engine parts The book focuses on all aspects of design of machine elements including material selection and life or performance estimation under static fatigue impact and creep loading conditions The book also introduces various engineering analysis tools such as MATLAB AutoCAD and Finite Element Methods with a view to optimizing the design It also explains the fracture mechanics based design concept with many practical examples Pedagogically strong the book features an abundance of worked out examples case studies chapter end summaries review questions as well as multiple choice questions which are all well designed to sharpen the learning and design skills of the students This textbook is designed to appropriately serve the needs of undergraduate and postgraduate students of mechanical engineering agricultural engineering and production and industrial engineering for a complete course in Machine Design Papers I and II fully conforming to the prescribed syllabi of all universities and institutes *Evolutionary Machine Design* Nadia Nedjah, Luiza de Macedo Mourelle, 2005 In recent years genetic programming has attracted many researcher s attention and so became a consolidated methodology to automatically create new competitive computer programs Concise and efficient synthesis of a variety of systems has been generated by evolutionary computations Evolvable hardware is a growing discipline It allows one to evolve creative and novel hardware architectures given the expected input output behaviour There are two kinds of evolvable hardware extrinsic and intrinsic The former relies on a simulated evolutionary process to evaluate the characteristics of the evolved designs while the latter uses hardware itself to do so Usually reconfigurable hardware such FPGA and FPAA are exploited One of the main problems that still faces researchers in the field of evolutionary machine design is the scalability This book is devoted to reporting innovative and significant progress in automatic machine design Theoretical as well as practical chapters are contemplated The scalability problem in evolutionary machine designs is addresses The content of this book is divided into two main parts evolvable hardware and genetic programming and evolutionary designs In the following we give a brief description of the main contribution of each of the included chapters

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