

Solutions of ch. 11 (Screw joints)

1-

From table 11.1 :

stress area for M20 = 245 mm^2 , and for M36 = 817 mm^2

$$P = A \times \sigma_t = 245 \times 200 = 49000 \text{ kN for M20}$$

$$= 817 \times 200 = 163400 = 163.4 \text{ kN for M36}$$

2-

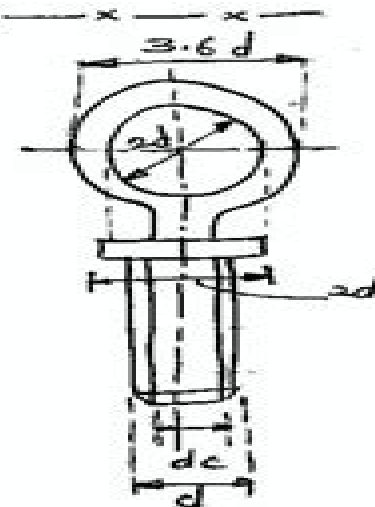
$$P = \frac{\pi}{4} (d_c)^2 \cdot \sigma_t$$

$$20 \times 10^3 = \frac{\pi}{4} (d_c)^2 \times 100$$

$$d_c = 15.95 \text{ mm}$$

The nearest value of d_c from table 11.1

$$d_c = 16.933 \text{ mm, M20 ans.}$$



3-

$$P = \frac{\pi}{4} (D)^2 \cdot p = \frac{\pi}{4} (300)^2 \times 0.7 = 49480.1 \text{ N}$$

$$P = \frac{\pi}{4} d_c^2 \cdot \sigma_t \cdot A$$

$$49480 = \frac{\pi}{4} d_c^2 \times 20 \times 12$$

$$d_c = 13.693$$

The nearest standard value of d_c from table 11.1

$$d_c = 14.933, M = 18$$

Solution Manual Of Machine Design By Khurmi

Singh



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A Textbook of Machine Design RS Khurmi | JK Gupta, 2005 The present multicolor edition has been thoroughly revised and brought up to date Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice this book has already been included in the suggested reading for the A M I E India examinations *Publisher's Monthly*, 1998 The Publishers' Trade List Annual, 1969 **Whitaker's Book List**, 1987 Solutions Manual, Processes and Design for Manufacturing Sherif D. El Wakil, 1989 Theory of Machines RS Khurmi | JK Gupta, 2005 While writing the book we have continuously kept in mind the examination requirements of the students preparing for U P S C Engg Services and A M I E I examinations In order to make this volume more useful for them complete solutions of their examination papers up to 1975 have also been included Every care has been taken to make this treatise as self explanatory as possible The subject matter has been amply illustrated by incorporating a good number of solved unsolved and well graded examples of almost every variety **Systems Approach to Computer-Integrated Design and Manufacturing** Singh, 1995-11-01 Manufacturing Engineering and Technology Serope Kalpakjian, 1995 *Machine Elements* Alexandru Valentin Rădulescu, 2014

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