

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-

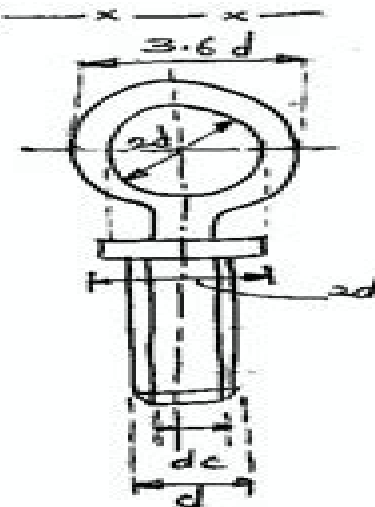
$$P = \frac{\pi}{4} (d_c)^2 \cdot \sigma_t$$

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

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

The nearest value of d_c from table 11.1

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



3-

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

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

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

$$d_c = 13.693$$

The nearest standard value of d_c from table 11.1

$$d_c = 14.933, M = 18$$

Solution Manual Of Machine Design By Khurmi

RS Khurmi | JK Gupta



Solution Manual Of Machine Design By Khurmi:

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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Table of Contents Solution Manual Of Machine Design By Khurmi

1. Understanding the eBook Solution Manual Of Machine Design By Khurmi
 - The Rise of Digital Reading Solution Manual Of Machine Design By Khurmi
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Of Machine Design By Khurmi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual Of Machine Design By Khurmi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Of Machine Design By Khurmi
 - Personalized Recommendations
 - Solution Manual Of Machine Design By Khurmi User Reviews and Ratings
 - Solution Manual Of Machine Design By Khurmi and Bestseller Lists
5. Accessing Solution Manual Of Machine Design By Khurmi Free and Paid eBooks
 - Solution Manual Of Machine Design By Khurmi Public Domain eBooks
 - Solution Manual Of Machine Design By Khurmi eBook Subscription Services
 - Solution Manual Of Machine Design By Khurmi Budget-Friendly Options
6. Navigating Solution Manual Of Machine Design By Khurmi eBook Formats

- ePub, PDF, MOBI, and More
 - Solution Manual Of Machine Design By Khurmi Compatibility with Devices
 - Solution Manual Of Machine Design By Khurmi Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Of Machine Design By Khurmi
 - Highlighting and Note-Taking Solution Manual Of Machine Design By Khurmi
 - Interactive Elements Solution Manual Of Machine Design By Khurmi
 8. Staying Engaged with Solution Manual Of Machine Design By Khurmi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Of Machine Design By Khurmi
 9. Balancing eBooks and Physical Books Solution Manual Of Machine Design By Khurmi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Of Machine Design By Khurmi
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Solution Manual Of Machine Design By Khurmi
 - Setting Reading Goals Solution Manual Of Machine Design By Khurmi
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Solution Manual Of Machine Design By Khurmi
 - Fact-Checking eBook Content of Solution Manual Of Machine Design By Khurmi
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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