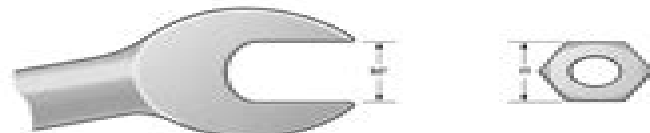




Problem 1.6 Suppose that you have just purchased a Ferrari F355 coupe and you want to know whether you can use your set of SAE (U.S. Customary Units) wrenches to work on it. You have wrenches with widths $w = 1/4$ in, $1/2$ in, $3/4$ in, and 1 in, and the car has nuts with dimensions $n = 5$ mm, 10 mm, 15 mm, 20 mm, and 25 mm. Defining a wrench to fit if w is no more than 2% larger than n , which of your wrenches can you use?



Solution: Convert the metric size n to inches, and compare the percentage difference between the metric sized nut and the SAE wrench. The results are:

$$5 \text{ mm} \left(\frac{1 \text{ inch}}{25.4 \text{ mm}} \right) = 0.19685 \text{ in.} \quad \left(\frac{0.19685 - 0.25}{0.19685} \right) 100 = -27.0\%$$

$$10 \text{ mm} \left(\frac{1 \text{ inch}}{25.4 \text{ mm}} \right) = 0.3937 \text{ in.} \quad \left(\frac{0.3937 - 0.5}{0.3937} \right) 100 = -27.0\%$$

$$15 \text{ mm} \left(\frac{1 \text{ inch}}{25.4 \text{ mm}} \right) = 0.5905 \text{ in.} \quad \left(\frac{0.5905 - 0.5}{0.5905} \right) 100 = +15.3\%$$

$$20 \text{ mm} \left(\frac{1 \text{ inch}}{25.4 \text{ mm}} \right) = 0.7874 \text{ in.} \quad \left(\frac{0.7874 - 0.75}{0.7874} \right) 100 = +4.7\%$$

$$25 \text{ mm} \left(\frac{1 \text{ inch}}{25.4 \text{ mm}} \right) = 0.9843 \text{ in.} \quad \left(\frac{0.9843 - 1.0}{0.9843} \right) 100 = -1.6\%$$

A negative percentage implies that the metric nut is smaller than the SAE wrench; a positive percentage means that the nut is larger than the wrench. Thus within the definition of the 2% fit, the 1 in wrench will fit the 25 mm nut. The other wrenches cannot be used.

Problem 1.7 Suppose that the height of Mt. Everest is known to be between 29,032 ft and 29,034 ft. Based on this information, to how many significant digits can you express the height (a) in feet? (b) in meters?

Solution:

(a) $h_1 = 29032 \text{ ft}$

$h_2 = 29034 \text{ ft}$

The two heights are equal if rounded off to four significant digits. The fifth digit is not meaningful.

Four: $h = 29,030 \text{ ft}$

(b) In meters we have

$h_1 = 29032 \text{ ft} \left(\frac{1 \text{ m}}{3.281 \text{ ft}} \right) = 8848.52 \text{ m}$

$h_2 = 29034 \text{ ft} \left(\frac{1 \text{ m}}{3.281 \text{ ft}} \right) = 8849.13 \text{ m}$

These two heights are equal if rounded off to three significant digits. The fourth digit is not meaningful.

Three: $h = 8850 \text{ m}$

Problem 1.8 The maglev (magnetic levitation) train from Shanghai to the airport at Pudong reaches a speed of 430 km/h. Determine its speed (a) in mi/h; (b) ft/s.

Solution:

(a) $v = 430 \frac{\text{km}}{\text{h}} \left(\frac{0.6214 \text{ mi}}{1 \text{ km}} \right) = 267 \text{ mi/h} \quad \boxed{v = 267 \text{ mi/h}}$

(b) $v = 430 \frac{\text{km}}{\text{h}} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ ft}}{0.3048 \text{ m}} \right) \left(\frac{1 \text{ h}}{3600 \text{ s}} \right) = 392 \text{ ft/s}$
 $\boxed{v = 392 \text{ ft/s}}$

Problem 1.9 In the 2006 Winter Olympics, the men's 15-km cross-country skiing race was won by Andrus Veerpalu of Estonia in a time of 38 minutes, 1.3 seconds. Determine his average speed (the distance traveled divided by the time required) to three significant digits (a) in km/h; (b) in mi/h.

Solution:

(a) $v = \frac{15 \text{ km}}{\left(38 + \frac{1.3}{60} \right) \text{ min}} \left(\frac{60 \text{ min}}{1 \text{ h}} \right) = 23.7 \text{ km/h} \quad \boxed{v = 23.7 \text{ km/h}}$

(b) $v = (23.7 \text{ km/h}) \left(\frac{1 \text{ mi}}{1.609 \text{ km}} \right) = 14.7 \text{ mi/h} \quad \boxed{v = 14.7 \text{ mi/h}}$

Solution Manual Engineering Mechanics Statics 5th Edition

**Nicolae Ursu-Fischer, Diana Ioana
Popescu**



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Table of Contents Solution Manual Engineering Mechanics Statics 5th Edition

1. Understanding the eBook Solution Manual Engineering Mechanics Statics 5th Edition
 - The Rise of Digital Reading Solution Manual Engineering Mechanics Statics 5th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Engineering Mechanics Statics 5th Edition
 - 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 Engineering Mechanics Statics 5th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Engineering Mechanics Statics 5th Edition
 - Personalized Recommendations
 - Solution Manual Engineering Mechanics Statics 5th Edition User Reviews and Ratings
 - Solution Manual Engineering Mechanics Statics 5th Edition and Bestseller Lists
5. Accessing Solution Manual Engineering Mechanics Statics 5th Edition Free and Paid eBooks
 - Solution Manual Engineering Mechanics Statics 5th Edition Public Domain eBooks
 - Solution Manual Engineering Mechanics Statics 5th Edition eBook Subscription Services
 - Solution Manual Engineering Mechanics Statics 5th Edition Budget-Friendly Options
6. Navigating Solution Manual Engineering Mechanics Statics 5th Edition eBook Formats

- ePub, PDF, MOBI, and More
- Solution Manual Engineering Mechanics Statics 5th Edition Compatibility with Devices
- Solution Manual Engineering Mechanics Statics 5th Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Engineering Mechanics Statics 5th Edition
 - Highlighting and Note-Taking Solution Manual Engineering Mechanics Statics 5th Edition
 - Interactive Elements Solution Manual Engineering Mechanics Statics 5th Edition
- 8. Staying Engaged with Solution Manual Engineering Mechanics Statics 5th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Engineering Mechanics Statics 5th Edition
- 9. Balancing eBooks and Physical Books Solution Manual Engineering Mechanics Statics 5th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Engineering Mechanics Statics 5th Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Engineering Mechanics Statics 5th Edition
 - Setting Reading Goals Solution Manual Engineering Mechanics Statics 5th Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Engineering Mechanics Statics 5th Edition
 - Fact-Checking eBook Content of Solution Manual Engineering Mechanics Statics 5th Edition
 - 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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