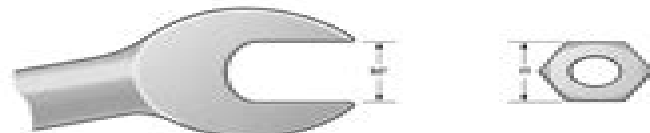




Problem 1.6 Suppose that you have just purchased a Ferrari F355 coupe and you want to know whether you can use your set of SAE (U.S. Customary Units) wrenches to work on it. You have wrenches with widths $w = 1/4$ in, $1/2$ in, $3/4$ in, and 1 in, and the car has nuts with dimensions $a = 5$ mm, 10 mm,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



Solution: Convert the metric size a 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:

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

$$h_2 = 29034 \text{ ft}$$

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

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

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.

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

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:

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

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

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:

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

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

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Tobias Bleicker



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Table of Contents Engineer Mechanics Statics Fifth Edition Solution Manual

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

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

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