



Activity 2.1.2 – Calculating Properties of Shapes

Purpose

If you were given the responsibility of painting a room, how would you know how much paint to purchase for the job? If you were told to purchase enough carpet to cover all the bedroom floors in your home, how would you communicate the amount of carpet needed to the salesperson? If you had to place an order for new shingles for the roof of your home, how would you determine the number of shingles needed? Aside from the fact that each of these questions deals with home improvement issues, they all center on the concept of area.

Area describes the measure of a two-dimensional surface. One example of how area is used in engineering is the calculation of stress that develops in an object that is subjected to an external load. If you have ever stretched a rubberband to the point that it breaks, then you have applied an external load to an object that has a constant cross-sectional area. In doing so, you caused stress to build up inside the rubberband until it broke. Another example of how area is used in engineering is the calculation of beam deflection. If you have ever walked across a fallen tree in an effort to cross a creek, then you have experienced the concept of deflection. If the tree had a small diameter, then the amount of deflection would be significant and noticeable. If the tree had a large trunk, then the amount of deflection was probably too small to feel or notice.

Equipment

- Number 2 pencil
- Calculator
- Engineer's notebook

Procedure

In this activity, you will broaden your knowledge of shapes and your ability to sketch them. You will also learn how to calculate the dimensions and area of a shape. Use points, construction lines, and object lines to sketch the shapes described in the first seven word problems. Use the notes contained in your engineer's notebook to help you perform the necessary calculations. Calculator use is encouraged, but you must show all of your work.

Calculating Properties Of Shapes Answer Key Ied

Clemens Wendtner



Calculating Properties Of Shapes Answer Key Ied:

The Shock and Vibration Digest ,1975-07 Thermodynamic Properties of Aqueous Solutions Organic Substances V. P. Belousov, Mikhail I U r'evich Panov,1994 Thermodynamic Properties of Aqueous Solutions of Organic Substances discusses the structure of aqueous solutions of organic substances and the intermolecular reactions in them presenting experimental data modern concepts concerning the properties of these solutions and the results of computer simulation The book offers an in depth study of the properties of maximally dilute aqueous solutions of polar and nonpolar organic molecules as well as the specific enthalpies of mixing The Addendum contains experimental data on the thermodynamic properties of infinitely dilute solutions **Applied Mechanics Reviews** ,1995 Scientific and Technical Aerospace Reports ,1993

International Record of Medicine and General Practice Clinics ,1907 **Metals Abstracts** ,1998 **Physics Briefs** ,1994 **Ceramic Abstracts** ,1999 Government Reports Announcements & Index ,1991 Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers,1959 Russian Journal of Physical Chemistry ,2003 **The Engineering Index Annual** ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly International Aerospace Abstracts ,1988 Reviews in Global Analysis ,1980-86 as Printed in Mathematical Reviews American Mathematical Society,1988 VLSI Metallization Krishna Shenai,1991 This comprehensive collection of reprinted articles presents the most important developments on VLSI contact and interconnect technologies and applications The book covers important developments in metallization of compound semiconductor technologies and includes a section on metallization reliability and high speed testing New York Medical Journal, and Philadelphia Medical Journal ,1907 Dissertation Abstracts ,1966 Abstracts of dissertations and monographs in microform **Meteorological and Geostrophysical Abstracts** ,1997 Colectânea dos trabalhos do Instituto de Butantan Instituto Butantan,1955 Reune os trabalhos realizados no Instituto ou com a sua colabora o e publicados em outras revistas que as Memorias do Instituto Butantan Energy Research Abstracts ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number

indexes

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