

Fluid Power Practice Problems Answer Key

Directions

Answer the following questions. Sketch each, then label all known values. Be sure to include all steps and units throughout each solution.

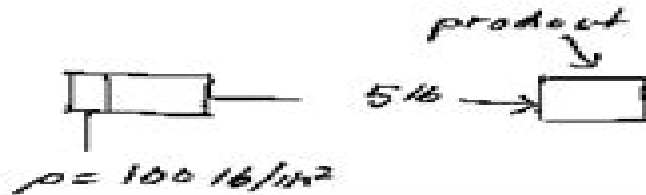
All problems assume that conditions are ideal. Forces such as friction are not considered.

Problems

A pneumatic system is producing 100 lb/in.^2 of absolute pressure. A cylinder is needed to press an adhesive label onto a product. It has been determined that 5 lb of force is optimal to complete this task.

1. Sketch and label all known and unknown values.

Sketch



2. What is the required area of the pneumatic cylinder?

Formula	Substitute / Solve	Final Answer
$p = \frac{F}{A}$	$100 \frac{\text{lb}}{\text{in.}^2} = \frac{5 \text{ lb}}{A} \rightarrow A = \frac{5 \cancel{\text{lb}}}{100 \frac{\cancel{\text{lb}}}{\text{in.}^2}} = 0.05 \text{ in.}^2$	$A = 0.05 \text{ in.}^2$

3. What is the required diameter of the pneumatic cylinder?

Formula	Substitute / Solve	Final Answer
$A = \pi r^2$ $d = 2r$	$0.05 \text{ in.}^2 = \pi r^2 \rightarrow r = \sqrt{\frac{0.05 \text{ in.}^2}{\pi}} = r = 0.13 \text{ in.}$ $d = 2(0.13 \text{ in.}) = 0.26 \text{ in.}$	$d = 0.3 \text{ in.}$

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**National Council of Examiners for
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The Bent of Tau Beta Pi ,2005 Chapman & Hall's Complete Fundamentals of Engineering Exam Review

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National Council of Examiners for Engineering and Surveying,2000 *Principles and Practice of Engineering (PE)* National

Council of Examiners for Engineering and Surveying,1992 Examples of problems questions which are typical of those that appear on the NCEES Principles and Practice of Engineering PE examinations **Barron's FE** Masoud Olia,2008-03-01

Passing the Fundamentals of Engineering Exam is the first step toward becoming a Registered or Professional Engineer The P E designation is a prerequisite for work as a consulting engineer as well as for engineering management positions in many industries This book prepares applicants with a mini diagnostic test plus a full length two part practice examination with questions answered and explained Prospective test takers will also find valuable brush up chapters covering all test topics biology chemistry computer programming dynamics electricity and magnetism engineering economy ethics and business practices fluid mechanics materials science and structure mathematics probability and statistics mechanics of materials statics and thermodynamics and heat transfer Additional practice questions with answer keys and explanations follow each chapter

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Principles and Practice of Engineering (PE). ,1995 *Engineer-in-training License Review* C. Dean Newnan,1976 *Principles and Practice of Engineering* ,1999 **Principles and Practice of Engineering (PE)** ,1991 **The Best Test Preparation & Review Course FE/EIT Fundamentals of Engineering/engineer-in-training** Clyde Granger,Michael Riordan,James Colaizzi,2000 This thorough study guide provides comprehensive review material and practice questions specific to chemical engineering Two full length practice tests are designed to prepare students for the FE PM exam in chemical engineering Detailed explanations to every question are included Topics covered include heat transfer chemical thermodynamics and more *Fundamentals of Engineering* National Council of Examiners for Engineering and Surveying,2001 *FE Review Manual* ,2000 *The Final Exam* Dick Bash,Richard M. Bash,1981-06-01

Fundamentals of Engineering Exam Study Guide Virgil Moring Faires,Joy O. Richardson,1995 *A Concise Reference Guide for the Principles and Practice of Engineering Industrial Exam* Daniel Bartlett,2013-10-31 This book is intended to provide reference material to aid in the completion of the Principles and Practices of Engineering Industrial Exam It contains a number of equations definitions and other references which should

provide an adequately prepared test taker with the tools to solve most questions posed on the exam **Final Exam April 2003 & Solutions**, 2004 **PPI FE Other Disciplines Practice Problems eText - 1 Year** Michael R.

Lindeburg, 2014-07-04 FE Other Disciplines Practice Problems offers comprehensive practice for the NCEES Other Disciplines FE exam This book is part of a comprehensive learning management system designed to help you pass the FE exam the first time Exam Topics Covered Chemistry Dynamics Electricity Power and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics and Dynamics of Gases and Liquids Heat Mass and Energy Transfer Instrumentation and Data Acquisition Materials Science Mathematics and Advanced Engineering Mathematics Statics Strength of Materials Probability and Statistics Safety Health and Environment Key Features Over 320 three minute multiple choice exam like practice problems to illustrate the type of problems you ll encounter during the exam Clear complete and easy to follow solutions to deepen your understanding of all knowledge areas covered in the exam Step by step calculations using equations and nomenclature from the NCEES FE Reference Handbook to familiarize you with the reference you ll have on exam day Binding Paperback Publisher PPI A Kaplan Company

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