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FE REFERENCE HANDBOOK

UNITS

The FE exam and the handbook use both the metric system of units and the U.S. Customary System (CS) units. The U.S. system of units, both long and short, are defined as follows. Therefore, you must interpret the given long (SI) and short (U.S.) units.

The pound-force is the force which produces an acceleration of 32.174 ft/sec². Thus, 1 lb_f = 32.174 lb_mft/sec². The expression 32.174 lb_mft/sec² is designated as *g*, and is used in metric expressions involving both mass and force expressed in pounds. For instance, a weight of 100 lb_f would be written as $W = 100 \text{ lb}_f$, where F is a force and m is a mass.

Metric expressions involve other quantities. Kinetic Energy, $KE = mv^2/2$, with KE in kilojoules. Potential Energy, $PE = mgh$, with PE in kilojoules. Heat Transfer, $Q = mc\Delta T$, with Q in kilojoules. Specific Weight, $\gamma = \rho g$, in kN/m³. Heat Flow, $\dot{Q} = qA$, with q in kilowatts per square meter (kW/m²). In all these examples, *g*, should be regarded as a unit conversion factor. It is frequently an entire expression in engineering equations. Therefore, it can be regarded as a constant unit of unity.

Now that the conversion factor *g* (32.174 ft/sec²) has been defined, we continue with the local acceleration of gravity, *g*, which has different values than *g* (32.174) and may be either the standard value of 9.807 m/s² or 32.174 ft/sec² for some other local value.

If the problem is presented in U.S. Customary units, it may be necessary to use the conversion *g* in the equation to have a consistent set of units.

SI PREFIXES			Commonly Used Equivalents
Symbol	Factor	Factor	
k	10 ³	1000	1 gallon of water weighs 8.345 lb 1 cubic foot of water weighs 62.4 lb 1 cubic inch of mercury weighs 0.491 lb The mass of 1 cubic centimeter of water is 1 milligram 1 inch = 2.54 centimeters
M	10 ⁶	1,000,000	
G	10 ⁹	1,000,000,000	
M	10 ⁻³	1/1000	
m	10 ⁻⁶	1/1,000,000	
TEMPERATURE CONVERSIONS			
			$T(^{\circ}\text{C}) = (T(^{\circ}\text{F}) - 32) / 1.8$
			$T(^{\circ}\text{F}) = 1.8T(^{\circ}\text{C}) + 32$
			$T(^{\circ}\text{R}) = T(^{\circ}\text{C}) + 273.15$
			$T(^{\circ}\text{C}) = (T(^{\circ}\text{R}) - 491.67) / 1.8$

WEIGHT CONVERSIONS

The standard gas constant, designated as *R*, is the ratio between volume pressure, volume, temperature, and number of moles of a real gas. When the standard constant, *R*, is divided by the molecular weight of the gas, the result, often designated as *R*, has units of energy per unit mass (British Units: ft²/lbm-°R) and becomes characteristic of the particular gas. Table 1.1 provides readily derived engineering values for the specific *R* values for the standard gas constant, *R*.

STANDARD CONDITIONS

Quantity	Symbol	Value	Units
Standard density	ρ	0.002378	lb/ft ³
Standard pressure	<i>P</i>	14.7	psia (absolute)
Standard temperature	<i>T</i>	519	°R (absolute)
Standard volume	<i>V</i>	13.45	ft ³ /lb (absolute)
Standard weight	<i>W</i>	0.075	lb (absolute)

The rectangular homogeneous gate shown below is 1.00 m high, 1.00 m wide and has a 100-mm-thick ledge at the bottom. If the fluid on the left side of the gate has a density of 1,000 kg/m³, the magnitude of the force *F* (kN) required to keep the gate closed is most nearly:



- (A) 8
- (B) 11
- (C) 24
- (D) 120

Engineering Fundamentals Exam

Donald G. Newnan, Bruce E. Larock



Engineering Fundamentals Exam:

FE Exam Masoud Olia, 2015-03-01 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 who are planning to take the exam in the field of mechanical or other disciplines. It includes two mini diagnostic tests, one for each discipline, plus two full length practice examinations with questions answered and explained for both disciplines. Prospective test takers will also find valuable brush up chapters covering all test topics: chemistry, computational tools, dynamics, kinematics, and vibrations; electricity and magnetism; engineering economy, ethics, and professional practices; fluid mechanics, instrumentation, and data acquisition; materials science and structure; mathematics, measurements, instrumentation, and controls; mechanical design and analysis; probability and statistics; mechanics of materials; safety, health, and environment; statics and thermodynamics; and heat, mass, and energy transfer. Additional practice questions with answer keys and explanations follow each chapter. *Civil Engineering FUNDAMENTALS A REVIEW MANUAL FOR THE SAUDI FE EXAM VOLUME I* Y.E. Mansour- M. Baig- M.E. Al-Altroush, 2024-06-05 Embark on a journey to achieve success in Fundamentals of Engineering FE exam with this two volume review manual tailored for civil engineers in Saudi Arabia. As the Engineering Licensure becomes a pivotal milestone for professional practice, attention shifts to the FE exam. The Volume 1 encompasses structural engineering intricacies covering Structural Analysis and Design. Additionally, it covers the fundamental aspects of Geotechnical Engineering, Transportation, and Highway Engineering from the FE exam view point. This manual seamlessly connects existing manuals with the unique demands of the Saudi FE exam, providing both theoretical insights and practical applications. In this comprehensive manual, our primary objective is to empower civil engineers and senior students by providing sample questions compliant with the Saudi Civil Engineering SCE standards. Specifically tailored for efficient FE exam preparation, this manual serves as an all encompassing resource, eliminating the necessity for additional references and ensuring a solid theoretical foundation. By aligning with SCE standards, we aim to equip individuals with the tools they need to confidently tackle the FE exam, a pivotal evaluation that not only measures learning outcomes but also significantly influences program rankings within the Kingdom of Saudi Arabia's Civil Engineering landscape. Your journey toward licensure takes its first decisive steps right here, where knowledge meets application in a uniquely tailored resource. Your journey to licensure begins here. About the Authors: Prof. Yasser E. Ibrahim Mansour is professor of Structural Engineering and Chairman of the Engineering Management Department at Prince Sultan University. He got his PhD from Virginia Tech USA in 2005. Prof. Yasser participated in several review panels of the NCAA accreditations of the undergraduate and graduate Civil Engineering Programs in KSA. Dr. Muneer Baig is an associate professor at Prince Sultan University, PSU, specializing in Materials Science. He has a Ph.D. degree from University of Maryland, Baltimore County. Dr. Muneer has dedicated several

years to imparting knowledge to undergraduate students specifically focusing on teaching strength of materials courses Dr Mohamed Ezzat Al Atroush is an Associate Professor of Civil and Environmental Engineering at Prince Sultan University PSU Riyadh KSA and the secretary of the American Society of Civil Engineers for the Saudi Arabia Section His area of specialty is geotechnical Engineering with an emphasis on resilient infrastructure applications He obtained his MSc in 2013 and a Ph D in 2018 both at Ain Shams University Egypt His impactful research recognized with prestigious awards contributes to advancing climate change resilience Dr Ezzat s extensive field experience encompasses over 250 projects in the Middle East reinforcing his expertise in soil mechanics infrastructure design and environmental challenges

Fundamentals of Engineering Donald G. Newnan,2004 Provides an in depth review of the fundamentals for the morning portion and the general afternoon portion of the FE exam Each chapter is written by an expert in the field This is the core textbook included in every FE Learning System and contains SI units *Engineering Fundamentals* James Warner Morrison,1978

Engineer-In-Training Examination Review Donald G. Newnan,Bruce E. Larock,1991-01-16 A revision of a proven guide for those preparing for the Engineer in Training Exam this text also serves as a standard reference for professional engineers Contents Mathematics Computer Programming Statics Dynamics Mechanics of Materials Fluid Mechanics Thermodynamics Chemistry Electricity Structure of Matter and Materials Science **Fundamentals of Engineering (F.E.) Examination** Eugene L. Boronow,1986 Fundamentals of Engineering (FE) Electrical and Computer - Practice Exam # 1 Wasim Asghar,2016-06-29 Practice makes perfect is as applicable to passing FE Exam as it is to anything else This book contains full length practice exam with complete solutions based on latest NCEES Computer Based Testing CBT specification for FE Electrical and Computer Exam By means of using this book you will be able to Perform diagnostics of strengths and weaknesses Calibrate exam readiness Fine tune study planThe solutions are explained to assist students in developing familiarity with NCEES FE Reference Handbook which is the only allowed reference material during exam Target audience of this book includes final year students new graduates as well as seasoned professionals who have been out of school for a while Please visit www.studyforfe.com to learn about the recently launched On demand preparation course for Electrical and Computer Engineering portions of the latest NCEES FE Computer based Testing specification and it will allow you the flexibility to learn anytime from anywhere at your own pace by learning from 80 lectures and quizzes

Fundamentals of Engineering: FE Exam Preparation Donald Newman,Edith Lank,Joan m. Sobeck,2005-12-01 This exclusive travel guide guides the visitor through the most incredible activities to be found in Shanghai savour the food of world class chefs in Asia s most romantic two seater salon eat at the best holes in the walls and discover local street food haunts find the best tailors and quality cashmere satins and brocades by the yard expert Professional Engineer ,1985

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Fundamentals of Engineering Review Merle C. Potter,2003 A condensed review of major exam topics for the General FE exam and a useful supplement for extra problem solving practice Previous editions of this title were published by Great Lakes Press The 11th edition is published by Blue Moose Press an imprint of Professional Publications Inc PPI This title is nonreturnable

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Mechanical Engineering Sample Examination Michael R. Lindeburg,1989 Engineers agree that taking mock exams provides excellent practice for the real thing The Mechanical Engineering Sample Examination is an eight hour practice exam similar in format content and difficulty to the mechanical PE exam All problems are accompanied by fully explained solutions

Study Guide for Fundamentals of Engineering (FE) Electrical and Computer CBT Exam Wasim Asghar,Wasim Asghar Pe,2015-11-13 This study guide is centered on the idea of problem based learning It contains over 400 focused problems with detailed solutions based on the latest NCEES FE Computer Based Testing specification for Electrical and Computer exam

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