

PE CIVIL: TRANSPORTATION PRACTICE EXAM

70.

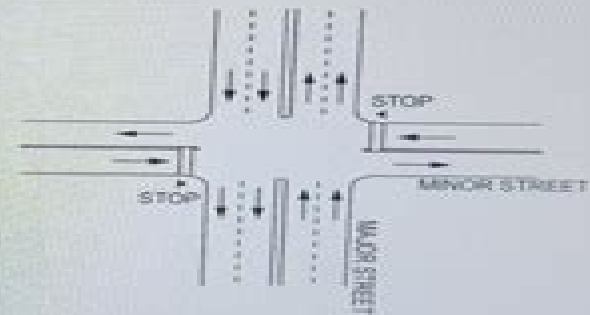
The intersection of a major street and a minor street is configured as shown. Traffic counts are shown in the table. The minor street is currently stop-sign controlled. An 8-hour, 4-hour, and crash experience warrant analysis is requested for the intersection. The following data apply:

- 85th percentile speed: 45 mph
- Population: 12,000
- 9-month crash history:
 - 3 right-angle crashes
 - 2 rear-end crashes
 - 2 left-turning crashes

Alternatives to reduce crash frequency have not resulted in any reductions in the accident rate.

Based on FHWA standards (including optional criteria), which warrants are met?

Hour	Total Vehicles Major Street	Higher-Volume Minor Street Approach (One Direction Only)
6-7 a.m.	735	105
7-8 a.m.	985	120
8-9 a.m.	1,050	135
9-10 a.m.	1,040	104
10-11 a.m.	825	92
11 a.m.-12 p.m.	835	77
12-1 p.m.	847	84
1-2 p.m.	855	111
2-3 p.m.	900	122
3-4 p.m.	1,050	116
4-5 p.m.	1,100	122
5-6 p.m.	1,150	125



- ☐ A. Warrant 2
- ☐ B. Warrants 1, 7
- ☐ C. Warrants 2, 7
- ☐ D. Warrants 1, 2, 7

Civil Transportation Pe Exam Equation Cheat Sheet

**Allan G., Allan Abubakar, P.E., P E Allan
G Abubakar**

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PPI Transportation Depth Reference Manual for the Civil PE Exam eText - 1 Year Norman Voigt, 2018-09-03

Comprehensive Coverage of the PE Civil Exam Transportation Depth Section The Transportation Depth Reference Manual for the PE Civil Exam prepares you for the transportation depth section of the NCEES PE Civil Transportation Exam It provides a concise yet thorough review of the transportation depth section exam topics and associated equations More than 25 end of chapter problems and 45 example problems all with step by step solutions show how to apply concepts and solve exam like problems A thorough index directs you to more than 280 equations 150 tables 140 figures 35 appendices and to the exam adopted codes and standards Topics Covered Geometric Design Pedestrian and Mass Transit Analysis Traffic and Capacity Analysis Traffic Safety Transportation Construction Transportation Planning Referenced Codes and Standards AASHTO Green Book 6th Edition 2011 AASHTO Guide for Design of Pavement Structures 1993 and 1998 supplement AASHTO Guide for the Planning Design and Operation of Pedestrian Facilities 1st Edition 2004 AASHTO Highway Safety Manual 1st Edition 2010 AASHTO Mechanistic Empirical Pavement Design Guide A Manual of Practice 2nd Edition 2015 AASHTO Roadside Design Guide 4th Edition 2011 AI The Asphalt Handbook 7th Edition 2007 FHWA Hydraulic Design of Highway Culverts 3rd Edition 2012 HCM Highway Capacity Manual 6th Edition 2016 MUTCD Manual on Uniform Traffic Control Devices 2009 including revisions in 2012 PCA Design and Control of Concrete Mixtures 16th Edition 2016 PROWAG Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way 2011 and 2013 supplement Key Features A robust index to facilitate quick referencing during the PE Civil Exam Highlights the most useful equations in the exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company

Civil PE Exam Breadth and Transportation Depth

David Gruttadauria, 2018-05-15 Study more efficiently by focusing on the core concepts necessary to pass the Civil PE Exam Transportation Depth Updated to the 2018 NCEES Specifications This book follows EXACTLY to the NCEES Civil Exam syllabus for the Transportation Depth and provides information specifically geared towards the exam This book includes Core Concepts Reference Guide with the breakdown of equations and concepts necessary to give you the baseline of knowledge for passing the Civil PE Exam for the Transportation Depth 80 Civil Morning Breadth and 40 Transportation Depth questions with detailed solutions The PE Exam is open book for a reason It is easy to get overwhelmed with the amount of information presented in study guides This reference guide and practice exam focuses your attention appropriately so that you may make the best use of your time and show up on test day as prepared as possible Please contact us at PECoreConcepts gmail com

Six-minute Solutions for Civil PE Exam Norman R. Voigt, 2006 Topics covered Construction Geometric Design Traffic Analysis Traffic Safety Traffic Planning

Main Formulas and 5 Full Civil Engineering PE Practice Breadth Exams with Detailed Solutions

Ali Asadi, 2021-09-25 This book includes main formulas and five full breadth exams with detailed solutions based on the specifications of the CIVIL Engineering PE exam by the National Council of Examiners for Engineering

and Surveying NCEES This book contains Three sections Section One Main formulas for the civil engineering PE breadth exam Section Two This section includes 200 questions as five separate exams with questions in various topics including Construction Geotechnical Structural Transportation and Water Resources and Environmental Section Three This section includes exam questions with detailed solutions which are categorized in the following topics so you can diagnose your strengths and weaknesses Project Planning Means and Methods Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development

Transportation Depth Reference Manual for the Civil PE Exam Norman R. Voigt, 2017-07-24 To succeed on the Civil PE exam's transportation depth section you'll need to know the exam subject matter and how to efficiently solve related problems The Transportation Depth Reference Manual provides a concise but thorough review of the exam topics and associated equations

Transportation Depth Module Practice Exams and Solutions for Civil PE License Exam Shahin A. Mansour, 2021 The book includes two full length multiple choice exams Each exam contains 40 problems with detailed solutions citing the 12 transportation references per 2020 NCEES Exam Specifications and Topics A concise and comprehensive summary of equations tables and charts is provided at the beginning of the book for easy access during the actual exam

Transportation Breadth (AM) for Civil PE License Shahin Mansour, 2014-01-01 Well Organized Based on the Latest California Board Test Plan and NCEES Exam Specifications Detailed Tables of Contents Computer Generated Index Simplified Concepts 57 Practice Problems with Detailed Solutions 56 Figures 67 Tables 28 Codes 47 Non Codes Equations 75 Equations

Transportation Module Breadth (AM) + Depth (PM) for Civil PE License Shahin Mansour, 2014-02-01 A Concise and Comprehensive Summary of Code Equations Non Code Equations Tables Charts and Figures is provided for a Quick Access During the Exam Current Transportation References 1 2011 GDHS 6 2 GDPS 4 3 2011 RSD 4 2008 AASHTO MEPDG 5 2004 AASHTO Ped Facilities 6 2007 Asphalt Handbook A1 7 2010 HCM 8 2009 MUTCD 9 2011 PCA 10 2012 FHWA Culvert Design

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Quick Reference for the Civil Engineering PE Exam Michael R. Lindeburg, 1996 Organizes all important formulas for fast access during the exam Corresponds to topics in the Civil Engineering Reference Manual 8th ed

PPI Transportation Depth Six-Minute Problems for the PE Civil Exam, 7th Edition -- Contains 91 Practice Problems for the PE Civil Exam Norman R. Voigt, 2018-08-08 Targeted Training for Solving PE Civil Transportation Depth Exam Multiple Choice Problems Transportation Depth Six Minute Problems for the PE Civil Exam contains 91 multiple choice problems that are grouped into 10 chapters that correspond to a topic on the PE Civil exam transportation depth section Problems are representative of the exam's format scope of topics and level of difficulty Like the

PE exam an average of six minutes is required to solve each problem in this book Each problem also includes a hint for optional problem solving guidance Comprehensive step by step solutions for all problems demonstrate accurate and efficient solving approaches Topics Covered Alternatives Analysis Drainage Geotechnical and Pavement Horizontal Design Intersection Geometry Roadside and Cross Section Design Signal Design Traffic Control Design Traffic Engineering Vertical Design Key Features Increase familiarity with the exam problems format content and solution methods Connect relevant theory to exam like problems Quickly identify accurate problem solving approaches Organize the references you will use on exam day Binding Paperback Publisher PPI A Kaplan Company **PPI PE Civil Study Guide, 17th Edition** Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg's PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI's civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI's reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth Reference Manual for the PE Civil Exam Water Resources and Environmental Depth Reference Manual for the PE Civil Exam Referenced Codes and Standards 2015 International Building Code ICC A Policy on Geometric Design of Highways Streets AASHTO AASHTO Guide for Design of Pavement Structures AASHTO AASHTO LRFD Bridge Design Specifications Building Code Requirements Specification for Masonry Structures ACI 530 Building Code Requirements for Structural Concrete Commentary ACI 318 Design Construction of Driven Pile Foundations FHWA Design Construction of Driven Pile Foundations Volume I FHWA Design Control of Concrete Mixtures PCA Design Loads on Structures During Construction ASCE 37 Formwork for Concrete ACI SP 4 Foundations Earth Structures Design Manual 7 02 Geotechnical Aspects of Pavements FHWA Guide for the Planning Design Operation of Pedestrian Facilities AASHTO Guide to Design of Slabs on Ground ACI 360R Guide to Formwork for Concrete ACI 347R Highway Capacity Manual TRB Highway Safety Manual AASHTO Hydraulic Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural Foundations Reference Manual FHWA Manual on Uniform Traffic Control Devices FHWA Minimum Design Loads for Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction AWC Occupational Safety Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater

Facilities TSS Roadside Design Guide AASHTO Soils Foundations Reference Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code Steel AWS **Essential Equations for the Civil PE Exam Using the HP 33s**

David V. Morse, Norman Voigt, Bruce A. Wolle, 2006 Time is of the essence during the civil PE exam Make the most of your time by storing commonly used equations in your HP 33s calculator prior to the exam Essential Equations for the Civil PE Exam Using the HP 33s gives you all the tools you need to input important equations for the exam in your calculator Save precious time on the civil PE exam by storing equations in your HP 33s calculator Store 50 frequently used equations covering the 5 disciplines of civil engineering Keystroke by keystroke instructions quickly walk you through the necessary steps Images of the corresponding calculator display screens to ensure accuracy 20 specially selected practice problems with step by step solutions show you how to use each of the equations Gain a greater understanding of important equations

PE Civil: Transportation Practice Exam & Solutions School of PE, 2022-04-27 **Civil PE Practice Problems**

Bible Ali Asadi, 2021-01-22 This book includes main formulas and 400 breadth exam practice questions with detailed solutions based on the specifications of the CIVIL Engineering PE exam by the National Council of Examiners for Engineering and Surveying NCEES This book contains the following sections Construction 127 Questions Geotechnical 80 Questions Structural 70 Questions Transportation 47 Questions Water Resources and Environmental 76 Questions Civil Engineering

Robert W. Stokes, James H. Banks, 2007 A focused review of the transportation topics of the PE exam for civil engineering and includes key concepts equations problems and solutions **PE Civil Engineering** , 2014 **PE Civil Transportation**

Practice Exam Workbook School of PE, 2025-09-27 *Useful Equations for Hp 35s Calculator Using Equation Mode for the Civil Fundamentals of Engineering (Fe) Exam* Allan G. Abubakar, 2017-07-12 Store these 200 useful equations in your HP 35s calculator Keystrokes are provided for easy programming using Equation mode The selected equations are covered in the current FE Reference Handbook This book consists of 231 sample problems with step by step solutions designed to help you pass the Civil FE exam The sample problems will show you how to solve problems quickly easily and accurately using the stored equations This book gives you confidence and preparedness when you take the exam after you have familiarized the equations and solved all practice sample problems The equations in this book are relevant to the following subjects Mathematics Statics Dynamics Mechanics of Materials Fluid Mechanics Engineering Economics Geotechnical Engineering Structural Analysis Hydrology Water Resources Transportation Earthwork Formulas Using HP 35s calculator with useful equations programmed saves you time in the exam thus giving you ample time to review your work or tackle difficult questions **Useful Equations for HP 35s Or HP 33s Calculator for the Civil PE Exam** Allan G., Allan Abubakar, P.E., P E Allan G Abubakar, 2013-05-11 Visit www.usefulequations.com to purchase book and HP 35s pre programmed calculator package The equations in this book are relevant to the following subjects Geotechnical Moisture content dry density void ratio degree of saturation relative density of soil borrow soil flow net laboratory permeability tests and effective

stress Shear strength and angle of internal friction for triaxial test Net and ultimate bearing capacities of square continuous and circular footings with or without water table Active passive and at rest lateral forces per unit length of wall with surcharge load and water table and lateral force per unit length of wall for sloping backfill and vertical wall Gross and net bearing capacity of mat foundation in saturated clay and depth of fully compensated mat foundation Factor of safety against overturning and sliding of retaining walls maximum stress at the toe and minimum stress at the heel Settlement of normally consolidated clay with up to 4 layers of soil given surcharge load settlement at the center and corner of mat foundation time rate of settlement slope stability in saturated clay and cyclic stress ratio 2 strut braced cut for sand soft to medium clay and stiff clay Skin friction resistance end bearing and allowable capacities of single pile in sand or clay Water Resources and Environmental Pitot tube venturi meter and orifice Reynolds number friction factor head loss using Darcy Weisbach equation or Hazen Williams equation Bernoulli equation with 2 different pipe sizes pump head and head loss due to fittings Open channels using Manning equation for circular rectangular and trapezoidal channels Flow rate and velocity of flow for circular channel when flowing full or partially full just by entering diameter of pipe depth of water Manning's n constant and slope of energy line no need to look up tables Flow rate and velocity of flow for trapezoidal channel just by entering depth of water base width of channel side slope horizontal Manning's n constant and slope of energy line Chemical feed rate Rapid mixing Overflow rate Detention time Weir loading rate Transportation Sight distance and stopping sight distance Radius of curve tangent of curve length of curve middle ordinate and external distance of horizontal curve Stopping sight distance passing sight distance curve elevation stationing of highest or lowest point of curve and vertical clearance Flexible and rigid pavement design Structural Maximum moment of simply supported and cantilever beams moment of inertia for I beam T beam and inverted T beam using parallel axis theorem maximum bending stresses and deflection of beam This book contains 200 equations with keystrokes included for HP 35s and HP 33s calculators plus 96 sample problems with step by step solutions

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