

Aashto Green Book 2011

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.

This document presents concepts for enhancing safety in the operation and management of highways. It presents good design and operational practices for numerous design elements and situations for all types of roads.

Guide for the Geometric Design of Driveways

Traffic controls for street and highway construction and maintenance operations

Left-turn Accommodations at Unsignalized Intersections

Excellence in Highway Design

Manual on Uniform Traffic Control Devices for Streets and Highways

TRB's National Cooperative Highway Research Program (NCHRP) Report 672: Roundabouts: An Informational Guide - Second Edition explores the planning, design, construction, maintenance, and operation of roundabouts. The report also addresses issues that may be useful in helping to explain the trade-offs associated with roundabouts. This report updates the U.S. Federal Highway Administration's Roundabouts: An Informational Guide, based on experience gained in the United States since that guide was published in 2000.

"TRB's National Cooperative Highway Research Program (NCHRP) Report 745: Left-Turn Accommodations at Unsignalized Intersections presents guidance for the selection and design of left-turn accommodations at unsignalized intersections. The report includes 11 case studies of typical situations that illustrate the use of the guidance."--Publisher's description.

Guide for the Planning, Design, and Operation of Pedestrian Facilities

A Policy on Geometric Design of Highways and Streets, 2011

Recent Roadway Geometric Design Research for Improved Safety and Operations

Roundabouts

Flexibility in Highway Design

"Since the publication of the first edition of the Access Management Manual, the context for transportation planning and roadway design in the United States has been transformed. Transportation agencies and local governments are under growing pressure to integrate land use and transportation policy and achieve a more sustainable, energy-efficient transportation system. This second edition of the manual responds to these developments by addressing access management comprehensively, as a critical part of network and land use planning. The content is interdisciplinary, with guidance pertinent to various levels of government as well as to pedestrians, bicyclists, and motorized vehicles, including trucks and buses, and is strongly grounded in decades of research, engineering science, and professional experience. Greater emphasis is placed on appropriate location of access, and guidance is refined to provide appropriate consideration of context and community issues. Substantial updates aid state and local agencies in managing access to corridor development effectively. Specific guidance on network and circulation planning and modal considerations is included, as well as guidance on effective site access and circulation design. A chapter on corridor management reinforces these concepts with a framework for application of access management in different contexts, along with appropriate strategies for each context. There are also new chapters on network planning, regional access management policies and programs, interchange area access management, auxiliary lane warrants and design, and right-of-way and access control. The manual concludes with an extensive menu of access management techniques and information on their application"--Provided by publisher.

RB's National Cooperative Highway Research Program (NCHRP) Synthesis 432: Recent Roadway Geometric Design Research for Improved Safety and Operations reviews and summarizes roadway geometric design literature completed and published from 2001 through early 2011, particularly research that identified impacts on safety and operations.

A Policy on Design Standards--Interstate System

Transportation and Traffic Engineering Handbook

Geometric Design Handbook

Civil Engineering Pe Practice Exams

PARAMETERS AFFECTING STOPPING SIGHT DISTANCE

"TRB's National Cooperative Highway Research Program (NCHRP) Report 780: Design Guidance For Intersection Auxiliary Lanes expands on guidance provided in A Policy on Geometric Design of Highways and Streets (the Green Book), published by the American Association of State Highway and Transportation Officials (AASHTO). This report highlights information regarding bypass lanes, channelized right-turn lanes, deceleration and taper length, design and capacity of multiple left-turn lanes, and alternative intersection designs."--Publisher description.

The diverging diamond interchange (also known as a double crossover diamond interchange) is a relatively new design to the United States. This design can increase throughput and safety without widening bridge structures. The TRB National Cooperative Highway Research Program's NCHRP Research Report 959: Diverging Diamond Interchange Informational Guide, Second Edition presents a comprehensive guide to the design and operation of diverging diamond interchanges and updates material found in the FHWA's Diverging Diamond Interchange Informational Guide. A workshop summary is provided that includes an overview of key traffic signal timing concepts at diverging diamond interchanges--from terminology to timing considerations and from operational analysis to traffic signal equipment. Videos viewed during the workshop are also provided.

Highway Safety Design and Operations Guide, 1997

Roadway Lighting Design Guide

Determination of Stopping Sight Distances

Guide for the Development of Bicycle Facilities, 2012

Transport cannot be understood without reference to the location of activities (land use), and vice versa. To understand one requires understanding the other. However, for a variety of historical reasons, transport and land use are quite divorced in practice. Typical transport engineers only touch land use planning courses once at most, and only then if they attend graduate school. Land use planners understand transport the way everyone does, from the perspective of the traveler, not of the system, and are seldom exposed to transport aside from, at best, a lone course in graduate school.This text aims to bridge the chasm, helping engineers understand the elements of access that are associated not only with traffic, but also with human behavior and activity location, and helping planners understand the technology underlying transport engineering, the processes, equations, and logic that make up the transport half of the accessibility measure. It aims to help both communicate accessibility to the public.

This design guide has been developed for the purpose of helping to achieve the following transportation systems management (TSM) goals: To maximize the person-moving capacity of roadway facilities by providing improved operating level of service for high occupancy vehicles (HOVs), both public and private; To conserve fuel and to minimize consumption of other resources needed for transportation; To improve air quality; and To increase overall accessibility while reducing vehicular congestion. Part I deals with HOV options in terms of planning and operations; Part II deals with design criteria for HOV options on freeways; and Part III deals with design criteria for HOV options on surface arterial streets.

Roadside Design Guide

Guidelines for Geometric Design of Very Low-volume Local Roads (ADT [Less Than Or Equal to Symbol] 400)

Concepts, Criteria and Procedures

Review of Truck Characteristics as Factors in Roadway Design

AASHTO Guide for Geometric Design of Transit Facilities on Highways and Streets

This guide is about designing highways that incorporate community values and are safe, efficient, effective mechanisms for the movement of people and goods. It is written for highway engineers and project managers who want to learn more about the flexibility available to them when designing roads and illustrates successful approaches use in other highway projects.

Highway engineers, as designers, strive to meet the needs of highway users while maintaining the integrity of the environment. Unique combinations of design controls and constraints that are often conflicting call for unique design solutions. A Policy on Geometric Design of Highways and Streets provides guidance based on established practices that are supplemented by recent research. This document is also intended as a comprehensive reference manual to assist in administrative

pertaining to design formulation

NCHRP Report 659

Intersection and Interchange Design

Guide for the Development of Bicycle Facilities

AASHTO Guide for Design of Pavement Structures, 1993

Elements of Access

Two Full Breadth Practice Exams for the Civil Engineering PE Exam Contains 80 problems that are representative of the actual Civil Engineering PE Exam. Each question has been designed in accordance with the latest NCEES specifications. These questions were created by real, practicing civil engineers that are familiar with the actual exam. Each question comes with a detailed solution to help you study efficiently and effectively. Register your book at CivilPEPractice.com for additional practice questions! Exam Topics Covered: Project Planning Means and Methods, Soil Mechanics Structural Mechanics Hydraulics and Hydrology Geometrics Materials Site Development

"This guide provides information on how to accommodate bicycle travel and operations in most riding environments. It is intended to present sound guidelines that result in facilities that meet the needs of bicyclists and other highway users. Sufficient flexibility is permitted to encourage designs that are sensitive to local context and incorporate the needs of bicyclists, pedestrians, and motorists." -- Publisher's website.

Freeway and Interchange

Traffic Engineering Handbook

A Policy on Geometric Design of Highways and Streets

Federal-aid Policy Guide

Diverging Diamond Interchange Informational Guide

Emphasizes the major elements of total transportation planning, particularly as they relate to traffic engineering. Updates essential facts about the vehicle, the highway and the driver, and all matters related to these three principal concerns of the traffic engineer.

Guidebook on designing freeways to promote healthy communities & safer streets.

2 Full Breadth Exams

A Policy on Geometric Design of Highways and Streets, 2018

Highway Functional Classification

An Informational Guide

2004

"The Traffic Engineering Handbook is a comprehensive practice-oriented reference that presents the fundamental concepts of traffic engineering, commensurate with the state of the practice"--

A Policy on Geometric Design of Highways and Streets, 2011AASHTOA Policy on Geometric Design of Highways and Streets, 2018

Research & Technology Transporter

A Guide for Achieving Flexibility in Highway Design

Access Management Manual

Transportation Depth Reference Manual for the Civil PE Exam

Guide for the Design of High Occupancy Vehicle Facilities