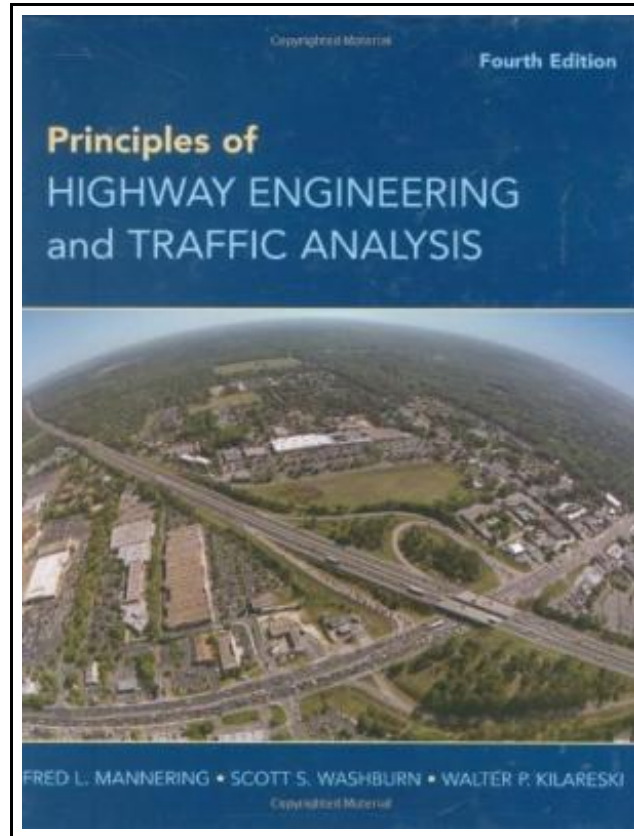


Principles of Highway Engineering and Traffic Analysis



Filesize: 1.42 MB

Reviews

The book is great and fantastic. It is rally exciting through reading time period. I am pleased to let you know that this is basically the greatest ebook i actually have go through inside my very own life and may be he best book for possibly.

(Mr. Hyman Ankunding DDS)

PRINCIPLES OF HIGHWAY ENGINEERING AND TRAFFIC ANALYSIS



Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!
Summary: Chapter 1: Introduction to Highway Engineering and Traffic Analysis.1.1 Introduction.1.2 Highways and the Economy.1.2.1 The Highway Economy.1.2.2 Supply Chains.1.2.3 Economic Development.1.3 Highways, Energy and the Environment.1.4 Highways and the Transportation System.1.5 Highway Transportation and the Human Element.1.5.1 Passenger Transportation Modes and Traffic Congestion. 1.5.2 Highway Safety. 1.5.3 Demographic Trends. 1.6 Highways and Evolving Technologies. 1.6.1 Infrastructure Technologies. 1.6.2 Vehicle Technologies. 1.6.3 Traffic Control Technologies. 1.7 Scope of Study.Chapter 2: Road Vehicle Performance.2.1 Introduction.2.2 Tractive Effort and Resistance.2.3 Aerodynamic Resistance.2.4 Rolling Resistance.2.5 Grade Resistance.2.6 Available Tractive Effort.2.6.1 Maximum Tractive Effort.2.6.2 Engine-Generated Tractive Effort.2.7 Vehicle Acceleration.2.8 Fuel Efficiency.2.9 Principles of Braking.2.9.1 Braking Forces.2.9.2 Braking Force Ratio and Efficiency.2.9.3 Antilock Braking Systems.2.9.4 Theoretical Stopping Distance.2.9.5 Practical Stopping Distance.2.9.6 Distance Traveled During Driver Perception/Reaction.Chapter 3: Geometric Design of Highways.3.1 Introduction.3.2 Principles of Highway Alignment.3.3 Vertical Alignment.3.3.1 Vertical Curve Fundamentals.3.3.2 Stopping Sight Distance.3.3.3 Stopping Sight Distance and Crest Vertical Curve Design.3.3.4 Stopping Sight Distance and Sag Vertical Curve Design.3.3.5 Passing Sight Distance and Crest Vertical Curve Design.3.3.6 Underpass Sight Distance and Sag Vertical Curve Design.3.4 Horizontal Alignment.3.4.1 Vehicle Cornering.3.4.2 Horizontal Curve Fundamentals.3.4.3 Stopping Sight Distance and Horizontal Curve Design.3.5 Combined Vertical and Horizontal Alignment.Chapter 4: Pavement Design.4.1 Introduction.4.2 Pavement Types.4.2.1 Flexible Pavements.4.2.2 Rigid Pavements 95.4.3 Pavement System Design: Principles for Flexible Pavements.4.3.1 Calculation of Flexible Pavement Stresses and Deflections.4.4 The AASHTO Flexible-Pavement Design Procedure.4.4.1 Serviceability Concept.4.4.2 Flexible-Pavement Design Equation.4.4.3 Structural Number.4.5 Pavement System Design: Principles for Rigid Pavements.4.5.1 Calculation of Rigid-Pavement Stresses and Deflections.4.6 The AASHTO Rigid-Pavement Design Procedure.4.7 Measuring Pavement Quality and Performance.4.7.1 International Roughness Index.4.7.2 Friction Measurements.4.7.3 Rut Depth.Chapter 5: Fundamentals of Traffic Flow and Queuing Theory.5.1 Introduction.5.2 Traffic Stream Parameters.5.2.1 Traffic Flow, Speed, and Density.5.3 Basic Traffic Stream Models.5.3.1 Speed-Density Model.5.3.2 Flow-Density Model.5.3.3 Speed-Flow Model.5.4 Models...



[Read Principles of Highway Engineering and Traffic Analysis Online](#)



[Download PDF Principles of Highway Engineering and Traffic Analysis](#)

Other eBooks



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

[Read Document »](#)



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

[Read Document »](#)



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

[Read Document »](#)



Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

[Read Document »](#)



The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3 (Paperback)

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.After six years as a private investigator, Stacey Alexander has the strangest day...

[Read Document »](#)