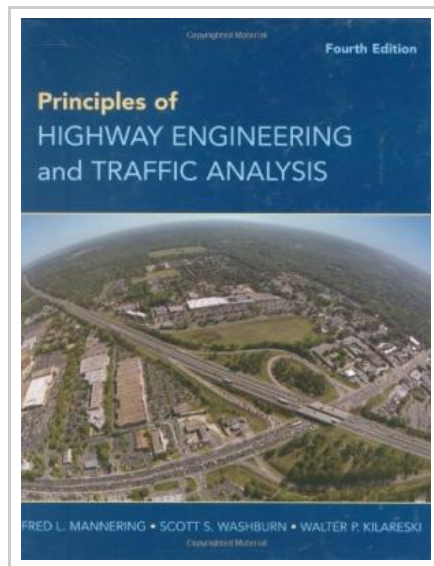




Principles of Highway Engineering and Traffic Analysis

By Mannering, Fred L.; Washburn, Scott S.; Kilareski, Walter P.

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 Undersight

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