Highway Engineering

Description: This book helps readers maximize effectiveness in all facets of highway engineering including planning, design, operations, safety, and geotechnical engineering. Highway Engineering: Planning, Design, and Operations features a seven part treatment, beginning with a clear and rigorous exposition of highway engineering concepts. These include project development, and the relationship between planning, operations, safety, and highway types (functional classification). Planning concepts and a four-step process overview are covered, along with trip generation, equations versus rates, trip distribution, and shortest path models equations versus rates. This is followed by parts concerning applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, and civil engineering topics.

- Covers traffic flow relationships and traffic impact analysis, collision analysis, road safety audits, advisory speeds
- Applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, civil engineering topics
- Engineering considerations for highway planning design and construction are included, such as hydraulics, geotechnical engineering, and structural engineering

Contents:
Part One: Introduction to Highway Engineering Concepts
Part Two: Transportation Planning
Part Three: Horizontal and Vertical Alignment
Part Four: Highway Geometric Design
Part Five: Traffic Operations
Part Six: Traffic Safety
Part Seven: Other Considerations for Highway Engineering

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