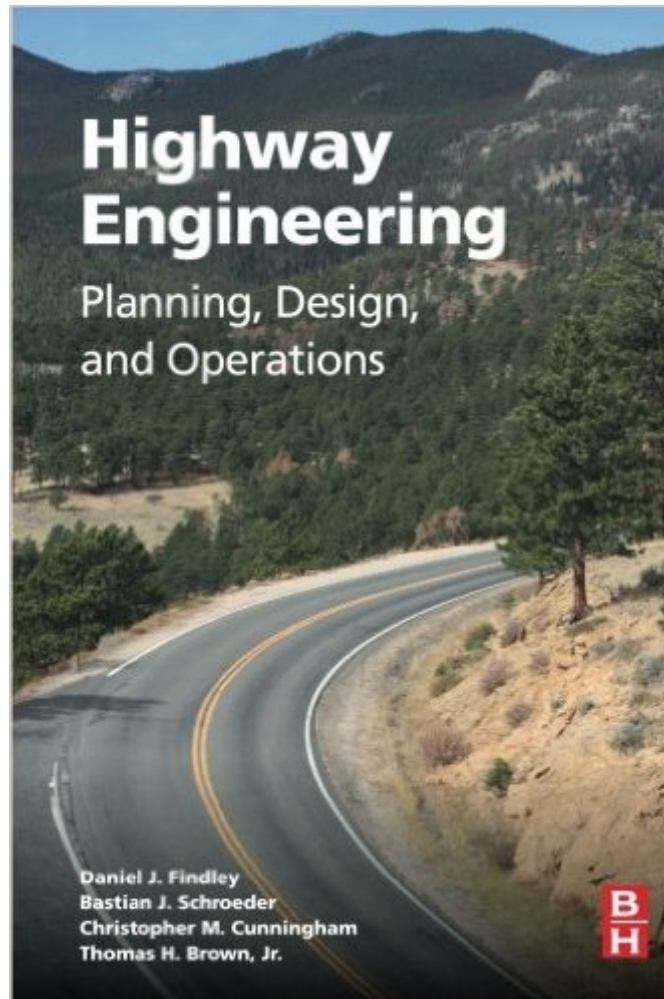# Highway Engineering: Planning, Design, And Operations

Synopsis

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 speedsApplications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, civil engineering topicsEngineering considerations for highway planning design and construction are included, such as hydraulics, geotechnical engineering, and structural engineering

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