

Chapter 11

The Transportation Planning Process

11-1

Explain why the transportation planning process is not intended to furnish a decision or give a single result.

The transportation planning process is a rational one that intends to furnish unbiased information about the effects that proposed transportation projects will have on the community, its environmental impacts, and its expected users. This process is not intended to furnish or to give a single result that must be followed but to provide information to the general public and to the political bodies responsible for deciding whether proposed transportation projects should be developed.

11-2

Describe the steps that an engineer must follow if asked to determine the need for a grade-separated railroad grade crossing that would replace an at-grade crossing of a two-lane highway with a rail line.

The first step the engineer will need to follow is to define the situation. The engineer must fully understand the reason why the grade-separated structure is said to be needed.

The next step is to define the problem in terms of the objectives to be accomplished by the project. The objectives for this project might be to improve safety by reducing or eliminating vehicle-train interaction. Another quantifiable objective might include the reduction in travel time to the motorists by eliminating delay due to crossing trains.

The third step for the engineer is to identify solutions to the perceived problem. Possible solutions to the problem might include the installation of active warning devices at the grade crossing, the diversion of motorists to other close-by grade crossings, or to construct a grade separated structure. A "no-build" or "do-nothing" alternative is typically considered as a possible solution.

The fourth step in the process is to analyze the expected performance of each of the alternatives under present and future conditions. This analysis should employ quantified measures of effectiveness such as travel time delay reductions and crash rate reductions. The analysis should also take into consideration costs such as the construction, maintenance, and operation costs of each alternative.

The fifth step in the process is to compare the alternatives against the objectives developed in step 2 of this process. The advantages and disadvantages of each must be studied.

Transportation Engineering And Planning Solution Manual

**Paul H. Wright, Norman J.
Ashford, Robert J. Stammer**



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Transportation Engineering Radnor Joseph Paquette, Norman Ashford, Paul H. Wright, 1982-01-01 **Solutions Manual to Accompany Introduction to Transportation Engineering and Planning** Edward K. Morlok, 1978

Planning and Design Wright, 1998-04-01 Engineering, Planning and Design Paul H. Wright, Norman J. Ashford, 1989-03 This is the Third Edition of a recognized standard in transportation engineering covering important aspects of planning design operation management and regulation The first three parts of this text reference deal with planning and other nonengineering aspects of transportation covering the transportation system of the United States operation and control of the vehicles and the planning process including management and finance issues The last three parts cover the design of land air and water transportation facilities including streets and highways railways guideway systems land transportation terminals pipelines airports harbors and ports **Engineering Tools and Solutions for Sustainable Transportation Planning** Knoflacher, Hermann, Ocalir-Akunal, Ebru V., 2017-02-14 While modern cities continue to grow and become more efficient in many sectors as their population increases public transportation has not yet caught up As a significant industry in contemporary society further progress in transportation systems is more vital than ever Engineering Tools and Solutions for Sustainable Transportation Planning is an informative reference source that outlines why current transportation systems have become inefficient in modern societies and offers solutions for the improvement of transportation infrastructures Highlighting key topics such as parking organization car ownership energy consumption and highway performance this is a detailed resource for all practitioners academics graduate students and researchers that are interested in studying the latest trends and developments in the transportation sector Transportation Engineering and Planning C. S. Papacostas, Panos D. Prevedouros, 1993 Topical coverage has been broadened to accommodate a wider range of content preferences with new separate chapters on Transportation Modes Urban Transportation and Traffic Impact and Parking Studies Sustainable Solutions for Water Resources James L. Sipes, 2010-04-26 Get the single source solutions guide to the sustainable management of water resources Why is water the environmental issue The answer is simple without it life on this planet could not exist Yet despite this fact reckless consumption practices from a growing population are drying up the Earth s already limited water resources Other factors such as river and lake contamination rising temperatures and disproportionate geographic accessibility further contribute to the fresh water crisis To confront this pressing concern this enlightening guide which covers over twenty case studies offering insights into real world projects uses a holistic integrated approach to illustrate ways to preserve vital water supplies from green design remedies to encouraging greater personal responsibility This book Provides a basic overview of water resources hydrology current problems involving water resources and the potential impact of global warming and climate change Covers watershed planning Best Management Practices and potential design and planning solutions Offers a concise overview of the issues affecting water use and management Includes a full

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Metropolitan Management, Transportation and Planning, 1914 *Journal of the Urban Planning and Development Division* American Society of Civil Engineers. Urban Planning and Development Division, 1967 Manual of Planning Information Theodora Kimball Hubbard, 1923 *Introduction to Transportation Engineering and Planning* Edward K. Morlok, 1978 Planning and Design of Outdoor Recreation Facilities United States. Department of the Army, 1975

Highway and Transportation Engineering and Planning Gavin Macpherson, 1993 Provides a clear and up to date guide to the engineering practice needed for the planning development implementation and management of transport systems setting them clearly within their social economic and political context **Transportation Planning Handbook** John D. Edwards, 1999 **Synthesis of Highway Practice** National Cooperative Highway Research Program, 2003 Energy, 1983 *The British Character, Studied and Revealed* Pont, 1982 **Energy: a Continuing Bibliography with Indexes**, 1983 *Urban Mass Transportation Abstracts*, 1982 **Transportation Engineering** Paul H. Wright, Norman J. Ashford, Robert J. Stammer, 1998 Traveling along the path of the previous editions Transportation Engineering Planning and Design follows the United States transportation system from its development to its operations and control of the vehicle used to its planning planning process data collection finances procedures for future developments and evaluation of transportation plans and on to the design of land air and water transportation facilities which includes highways railways runways pipelines terminals harbors ports lighting for these areas sizing and more

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