

Highway Capacity Manual 2010

Chapter 15 Two-Lane Highways

Step 1: Input Data

- Collect data necessary to evaluate the desired two-lane highway segment.
- Site-specific data is better than default values.

Step 2: Estimate the FFS

- FFS should be measured if possible for the segment, preferably by direct field measurement. If not, a sampling method may be used. If field data are not available, FFS may be indirectly estimated.
- FFS can vary greatly between two-lane highway facilities and helps the analyst understand drivers' behavior on that segment. This step takes into account the effect of the geometry on driver behavior.

Step 3: Demand Adjustment for ATS

- Adjusts the demand volume in the analysis direction into a flow rate (in veh/hr) to better represent traffic, which will be used to calculate ATS.
- This step takes into account the effects of terrain and heavy vehicles on the traffic stream. It also adjusts the volume to represent the peak hour.

Step 4: Estimate the ATS

- Calculate the ATS for the analysis segment using Equation 15-6.
- The ATS adjusts the FFS to account for the effect of no passing zones and the opposing traffic flow rate on traffic traveling in the analysis direction.

Step 5: Demand Adjustment for PTSF

- Adjusts the demand volume in the analysis direction into a flow rate (in veh/hr) to better represent traffic, which will be used to calculate PTSF.
- As with the adjustment for ATS, this step accounts for the effects of grade and heavy vehicles on the traffic stream, as well as adjusting the flow rate to the peak hour.

Step 6: Estimate the PTSF

- Calculate the percentage of time a vehicle traveling in the analysis direction would be unable to pass and form a platoon behind another vehicle traveling slower.
- This step attempts to quantify the difficulty of a vehicle traveling at a higher rate of speed to pass a slower-moving vehicle on the road segment. As the percentage increases, platoons of vehicles grow longer and operational conditions degrade.

Step 7: Estimate the PFFS

- For Class III facilities only, this provides another measure of operational performance.
- This step compares the actual average speed of travel versus the free-flow speed to estimate how the traffic conditions have affected how fast people are able to travel.

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RS Peters



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Extent of Highway Capacity Manual Use in Planning Richard Gerhard Dowling, Aaron Elias, 2012 TRB's National Cooperative Highway Research Program NCHRP Synthesis 427 Extent of Highway Capacity Manual Use in Planning assesses how state departments of transportation small and large metropolitan planning organizations and local governments are using or might use the Highway Capacity Manual for planning analyses or more specifically for performance monitoring problem identification project prioritization programming and decision making processes *The Highway Capacity Manual: A Conceptual and Research History Volume 2* Elena S. Prassas, Roger P. Roess, 2020-01-08 Since 1950 the Highway Capacity Manual has been a standard used in the planning design analysis and operation of virtually any highway traffic facility in the United States It has also been widely used around the globe and has inspired the development of similar manuals in other countries This book is Volume II of a series on the conceptual and research origins of the methodologies found in the Highway Capacity Manual It focuses on the most complex points in a traffic system signalized and unsignalized intersections and the concepts and methodologies developed over the years to model their operations It also includes an overview of the fundamental concepts of capacity and level of service particularly as applied to intersections The historical roots of the manual and its contents are important to understanding current methodologies and improving them in the future As such this book is a valuable resource for current and future users of the Highway Capacity Manual as well as researchers and developers involved in advancing the state of the art in the field *The Highway Capacity Manual: A Conceptual and Research History* Roger . P Roess, Elena . S Prassas, 2014-04-03 Since 1950 the Highway Capacity Manual has been a standard used in the planning design analysis and operation of virtually any highway traffic facility in the United States It has also been widely used abroad and has spurred the development of similar manuals in other countries The twin concepts of capacity and level of service have been developed in the manual and methodologies have been presented that allow highway traffic facilities to be designed on a common basis and allow for the analysis of operational quality under various traffic demand scenarios The manual also addresses related pedestrian bicycle and transit issues This book details the fundamental development of the concepts of capacity and level of service and of the specific methodologies developed to describe them over a wide range of facility types The book is comprised of two volumes Volume 1 this book focuses on the development of basic principles and their application to uninterrupted flow facilities freeways multilane highways and two lane highways Weaving merging and diverging segments on freeways and multilane highways are also discussed in detail Volume 2 focuses on interrupted flow facilities signalized and unsignalized intersections urban streets and arterials It is intended to help users of the manual understand how concepts approaches and specific methodologies were developed and to understand the underlying principles that each embodies It is also intended to act as a basic reference for current and future researchers who will continue to develop new and improved capacity analysis methodologies for many years to come Road Traffic

Congestion: A Concise Guide John C. Falcocchio, Herbert S. Levinson, 2015-03-13 This book on road traffic congestion in cities and suburbs describes congestion problems and shows how they can be relieved The first part Chapters 1 3 shows how congestion reflects transportation technologies and settlement patterns The second part Chapters 4 13 describes the causes characteristics and consequences of congestion The third part Chapters 14 23 presents various relief strategies including supply adaptation and demand mitigation for nonrecurring and recurring congestion The last part Chapter 24 gives general guidelines for congestion relief and provides a general outlook for the future The book will be useful for a wide audience including students practitioners and researchers in a variety of professional endeavors traffic engineers transportation planners public transport specialists city planners public administrators and private enterprises that depend on transportation for their activities

An Introduction to Traffic Flow Theory Lily Elefteriadou, 2024-04-20 This second edition of *An Introduction to Traffic Flow Theory* adds new material in several chapters related to advanced technologies including autonomy the use of sensors and communications and particularly congestion mitigation solutions that leverage connected and autonomous vehicles CAVs It also includes a new chapter that briefly outlines several mathematical analysis techniques commonly used in traffic flow theory aiming to introduce students to some of the most frequently used tools available for traffic operational related analysis This new edition also includes several updates related to the most recent versions of the Highway Capacity Manual and the Green Book This textbook is meant for use in advanced undergraduate graduate level courses in traffic flow theory with prerequisites including two semesters of calculus statistics and an introductory course in transportation The text would also be of interest to transportation professionals as a refresher in traffic flow theory or as a reference Students and engineers of diverse backgrounds will find this text accessible and applicable to today's traffic issues This text provides a comprehensive and concise treatment of the topic of traffic flow theory and includes several topics relevant to today's highway transportation system It provides the fundamental principles of traffic flow theory as well as applications of those principles for evaluating specific types of facilities freeways intersections etc Newer concepts of Intelligent transportation systems ITS and their potential impact on traffic flow are discussed State of the art traffic flow research microscopic traffic analysis and traffic simulation have significantly advanced and are also discussed in this text Real world examples and useful problem sets complement each chapter

Intersections Control and Safety Antonio Pratelli, 2013-05-22 Starting off a new series on Transport Systems and Traffic Engineering the book aims to help bridge the gap between research and practice encouraging a critical dialogue in different specific subjects spanning innovation development and technology transfer Those who offer innovation often do not meet the immediate needs of practitioners especially in the traditional field of civil engineering Still the adequate diffusion of research results and wisdom derived from practical experience are crucial to both theoretical underpinnings and technical applications The papers forming this book are devoted to intersection control and safety and have been selected bearing in mind the criteria stated above That is these

papers provide both scholarly contribution as well as vision for application As a general rule about one third of all highway crashes happen at intersections This rule holds for many different countries Intersection crashes also represent a significant portion of serious injury crashes and by right are receiving considerable attention from researchers and practitioners alike This book is therefore devoted to relevant safety aspects of road intersections and innovative features in design and operations that may address the intersection crash problem The thirteen papers are more or less equally devoted to roundabouts and signals These papers cover many of the most recent and emerging issues related to intersection control and safety Topics range from design details to driver perception from pedestrians behaviour to signal timing and from capacity models to red light running The book will be useful for those wishing to expand their knowledge of this ever important subject area

Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022 Rishi Gupta, Min Sun, Svetlana Brzev, M. Shahria Alam, Kelvin Tsun Wai Ng, Jianbing Li, Ashraf El Damatty, Clark Lim, 2024-02-05 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2022 The contents of this volume focus on specialty conferences in construction environmental hydrotechnical materials structures transportation engineering etc This volume will prove a valuable resource for those in academia and industry

Transportation Planning Handbook ITE (Institute of Transportation Engineers), Michael D. Meyer, 2016-07-12 A multi disciplinary approach to transportation planning fundamentals The Transportation Planning Handbook is a comprehensive practice oriented reference that presents the fundamental concepts of transportation planning alongside proven techniques This new fourth edition is more strongly focused on serving the needs of all users the role of safety in the planning process and transportation planning in the context of societal concerns including the development of more sustainable transportation solutions The content structure has been redesigned with a new format that promotes a more functionally driven multimodal approach to planning design and implementation including guidance toward the latest tools and technology The material has been updated to reflect the latest changes to major transportation resources such as the HCM MUTCD HSM and more including the most current ADA accessibility regulations Transportation planning has historically followed the rational planning model of defining objectives identifying problems generating and evaluating alternatives and developing plans Planners are increasingly expected to adopt a more multi disciplinary approach especially in light of the rising importance of sustainability and environmental concerns This book presents the fundamentals of transportation planning in a multidisciplinary context giving readers a practical reference for day to day answers Serve the needs of all users Incorporate safety into the planning process Examine the latest transportation planning software packages Get up to date on the latest standards recommendations and codes Developed by The Institute of Transportation Engineers this book is the culmination of over seventy years of transportation planning solutions fully updated to reflect the needs of a changing society For a comprehensive guide with practical answers The Transportation Planning Handbook is an essential reference

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Advances in Transportation Systems Engineering and Management M. V. L. R. Anjaneyulu, M. Harikrishna, Shriniwas S. Arkatkar, A. Veeraragavan, 2022-11-10 The book presents the select proceedings of the 8th International Conference on Transportation Systems Engineering and Management CTSEM 2021 The book covers topics pertaining to three broad areas of transportation engineering namely Transportation Planning Traffic Engineering and Pavement Technology The topics covered include transportation and land use urban and regional transportation planning travel behavior modeling travel demand analysis forecasting and management transportation and ICT public transport planning and management freight transport traffic flow modeling and management highway design and maintenance capacity and level of service traffic crashes and safety ITS and applications non motorized transportation transportation economics and policy road and parking pricing pedestrian facilities and safety road asset management pavement materials and characterization pavement design and construction pavement evaluation and management transportation infrastructure financing innovative trends in transportation systems sustainable transportation smart cities resilience of transportation systems and environmental and ecological aspects This book will be useful for the students researchers and the professionals in the area of civil engineering especially transportation and traffic engineering

Nodes in Transport Networks - Research, Data Analysis and Modelling Elżbieta Macioszek, Nan Kang, Grzegorz Sierpiński, 2020-01-06 The publication delivers numerous valuable guidelines particularly useful when making decisions related in the subject matter to road and rail nodes located in dense transport networks The know how displayed while discussing practical examples as well as the decision making support systems described in the publication will certainly attract the interest of those who daily face the challenge of seeking solutions to the operational and functional problems of transport nodes in contemporary transport networks and systems This publication is dedicated to local authorities involved in planning and preparation of development strategies for specific transport related issues in both urban and regional areas as well as to representatives of business and industry being those who participate directly in the implementation of traffic engineering solutions The guidelines provided in individual chapters of the publication will make it possible to address the given problem in an advanced manner and simplify the choice of appropriate strategies including those related to synchronisation of road traffic streams improving the capacity road traffic safety analysis evaluation of changes in drivers behaviour on account of introducing countdown timers at signal controlled intersections using UAV data the influence of the type of traffic organisation on the behaviour of pedestrians at tram line crossings On the other hand since the publication also concerns the new approach to theoretical models including potential places of integration of public transport with the railway network or the speed adviser for pedestrians enabling them to choose the optimal path at signal controlled intersections it should also attract the attention of researches and scientists studying this body of problems The publication entitled Nodes in transport networks research data analysis and modelling contains selected papers submitted to and presented at the 16th Transport Systems Theory and Practice Scientific and

Technical Conference organized by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology The conference was held on 16-18 September 2019 in Katowice Poland

Washington, DC Bypass Construction, I-95 in Va to I-70 and US-50 in MD (MD,VA,DC) ,1990 **Highway Engineering**
Martin Rogers, Bernard Enright, 2016-05-31 The repair, renovation and replacement of highway infrastructure along with the provision of new highways is a core element of civil engineering so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway through the geometric design and traffic analysis of highway links and intersections to the design and maintenance of both flexible and rigid pavements. Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance. Includes detailed discussions of traffic analysis and the economic appraisal of projects. Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges. Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject. **International Encyclopedia of Transportation** ,2021-05-13 In an increasingly globalised world despite reductions in costs and time, transportation has become even more important as a facilitator of economic and human interaction. This is reflected in technical advances in transportation systems, increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts. This has become particularly acute with the impact that Covid-19 has had on transportation across the world at local, national and international levels. Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross-cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering, operations, research, economics, geography and sociology in order to understand the changes taking place. Emphasising the interaction between these different aspects of research, it offers new solutions to modern-day problems related to transportation. Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives. Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines, different parts of the world and different social perspectives. The nine sections are structured around the following themes: Transport Modes; Freight Transport and Logistics; Transport Safety and Security; Transport Economics; Traffic Management; Transport Modelling and Data Management; Transport Policy and Planning; Transport Psychology; Sustainability and Health Issues in Transportation. Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future-oriented view of new research areas or challenges. The end result is a reference work that offers researchers and practitioners new approaches, new ways of thinking and novel solutions to problems. All encompassing and expertly authored, this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world.

Provides a forward looking and integrated approach to transportation Updated with future technological impacts such as self driving vehicles cyber physical systems and big data analytics Includes comprehensive coverage Presents a worldwide approach including sets of comparative studies and applications

Proceedings of the 21st International Symposium on Advancement of Construction Management and Real Estate K. W. Chau, Isabelle Y.S. Chan, Weisheng Lu, Chris Webster, 2017-12-18 This book presents the proceedings of CRIOCM_2016 21st International Conference on Advancement of Construction Management and Real Estate sharing the latest developments in real estate and construction management around the globe The conference was organized by the Chinese Research Institute of Construction Management CRIOCM working in close collaboration with the University of Hong Kong Written by international academics and professionals the proceedings discuss the latest achievements research findings and advances in frontier disciplines in the field of construction management and real estate Covering a wide range of topics including building information modelling big data geographic information systems housing policies management of infrastructure projects occupational health and safety real estate finance and economics urban planning and sustainability the discussions provide valuable insights into the implementation of advanced construction project management and the real estate market in China and abroad The book is an outstanding reference resource for academics and professionals alike

Transportation Engineering Dusan Teodorovic, Milan Janić, 2022-01-28 Transportation Engineering Theory Practice and Modeling Second Edition presents comprehensive information related to traffic engineering and control transportation planning and evaluation of transportation alternatives The book systematically deals with almost the entire transportation engineering area offering various techniques related to transportation modeling transportation planning and traffic control It also shows readers how to use models and methods when predicting travel and freight transportation demand how to analyze existing transportation networks how to plan for new networks and how to develop traffic control tactics and strategies New topics addressed include alternative Intersections alternative interchanges and individual private transportation Readers will also learn how to utilize a range of engineering concepts and methods to make future transportation systems safer more cost effective and greener Providing a broad view of transportation engineering including transport infrastructure control methods and analysis techniques this new edition is for postgraduates in transportation and professionals needing to keep up to date with the latest theories and models Covers all forms of transportation engineering including air rail road and public transit modes Examines different transportation modes and how to make them sustainable Features a new chapter covering the reliability resilience robustness and vulnerability of transportation systems

Planning and Preliminary Engineering Applications Guide to the Highway Capacity Manual Richard Gerhard Dowling, 2016 National Cooperative Highway Research Program NCHRP Report 825 Planning and Preliminary Engineering Applications Guide to the Highway Capacity Manual will help planners apply the methodologies of the 6th Edition of the Highway Capacity Manual HCM to common planning and

preliminary engineering analyses including scenario planning and system performance monitoring It shows how the HCM can interact with travel demand forecasting mobile source emission and simulation models and its application to multimodal analyses and oversaturated conditions Three case studies freeway master plan arterial bus rapid transit analysis and long range transportation plan analysis illustrate the techniques presented in the guide In addition to providing a cost effective and reliable approach to analysis the guide provides a practical introduction to the detailed methodologies of the HCM

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Measures into the Transportation Planning and Programming Processes: Technical Reference Transportation Research Board, This report from the second Strategic Highway Research Program SHRP 2 which is administered by the Transportation Research Board of the National Academies provides a how to guide for technical staff to select and calculate the appropriate performance measures to support the development of key planning products including long range transportation plans transportation programs congestion management process corridor planning and operations planning

Pedestrian and Evacuation Dynamics 2012 Ulrich Weidmann,Uwe Kirsch,Michael Schreckenberg,2014-04-23 The 6th International Conference on Pedestrian and Evacuation Dynamics PED2012 showcased research on human locomotion This book presents the proceedings of PED2012 Humans have walked for eons our drive to settle the globe began with a walk out of Africa However much remains to discover As the world moves toward sustainability while racing to assess and accommodate climate change research must provide insight on the physical requirements of walking the dynamics of pedestrians on the move and more We must understand predict and simulate pedestrian behaviour to avoid dangerous situations to plan for emergencies and not least to make walking more attractive and enjoyable PED2012 offered 70 presentations and keynote talks as well as 70 poster presentations covering new and improved mathematical models describing new insights on pedestrian behaviour in normal and emergency cases and presenting research based on sensors and advanced observation methods These papers offer a starting point for innovative new research building a strong foundation for the next conference and for future research **Using the Engineering Literature** Bonnie A.

Osif,2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links

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