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HIGHWAY RESEARCH PROGRAM REPORT

**279**

**INTERSECTION CHANNELIZATION  
DESIGN GUIDE**

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# Nchrp Report 279 Intersection Channelization Design Guide

**Timothy R. Neuman, National Research Council (U.S.) Transportation Research Board**

## **Nchrp Report 279 Intersection Channelization Design Guide:**

*A Policy on Geometric Design of Highways and Streets, 2011* American Association of State Highway and Transportation Officials,2011

**Highway Safety Design and Operations Guide, 1997**,1997 A replacement to the publication entitled Highway design and operational practices related to highway safety also known as The Yellow Book and most recently published in 1974

### **Intersection Safety Issue Briefs ,2004      Left-turn Accommodations at Unsignalized**

**Intersections** Kay Fitzpatrick,2013 TRB s National Cooperative Highway Research Program NCHRP Report 745 Left Turn Accommodations at Unsignalized Intersections presents guidance for the selection and design of left turn accommodations at unsignalized intersections The report includes 11 case studies of typical situations that illustrate the use of the guidance publisher s description

### **Highway Safety Design and Operations Guide, 3rd Edition ,      Design Guidance for**

**Intersection Auxiliary Lanes** Kay Fitzpatrick,2014 TRB s National Cooperative Highway Research Program NCHRP Report 780 Design Guidance For Intersection Auxiliary Lanes expands on guidance provided in A Policy on Geometric Design of Highways and Streets the Green Book published by the American Association of State Highway and Transportation Officials AASHTO This report highlights information regarding bypass lanes channelized right turn lanes deceleration and taper length design and capacity of multiple left turn lanes and alternative intersection designs Publisher description

### **Facilities**

**Development Manual** Wisconsin. Department of Transportation,1979

### *Intersection Channelization Design Guide*

Timothy R. Neuman,National Research Council (U.S.). Transportation Research Board,1985

### **Accident Mitigation Guide**

**for Congested Rural Two-lane Highways** Kay Fitzpatrick,2000

*Intersection Geometric Design and Operational Guidelines for Older Drivers and Pedestrians* L. K. Staplin,1997

### **Design Guidelines for At-grade Intersections Near**

**Highway-railroad Grade Crossings** Mark Douglas Wooldridge,2000

### **Congress Avenue Regional Arterial Study**

Marc Acampora,1995 The concept of a collector distributor lane system as part of a regional arterial street improvement

program is introduced Such a system can improve operational aspects of certain urban arterial streets by provision of a

transitional space between through traffic streams and entering exiting streams Facilities for which this concept is most

applicable are arterial streets along which development has occurred that is inconsistent with the arterial street primary

function which is according to the 1990 American Association of State Highway and Transportation Officials policy through

travel and major circulation movement For the comprehensive regional arterial program as well as the collector distributor

system the acquisition of additional right of way is regarded as cost and or time prohibitive The idea of exclusive right turn

lanes along arterials is covered in some detail and many reports recognize the applicability of right most lane to separate

turning and slower moving vehicles from through traffic Issues that have potentially significant impacts on design and

operation of urban arterials are described specifically those that pertain to the design and implementation of collector

distributor lanes Benefits of converting an existing through traffic lane into a collector distributor lane are identified criteria

for implementation of a collector distributor lane are described and recommended design standards and procedures are presented *A Toolbox for Alleviating Traffic Congestion* Institute of Transportation Engineers,1989 **Transportation Research Record** ,1995 **CDOT Design Guide: pt. 1. Geometric design, AASHTO chapters (English units)**

Colorado. Department of Transportation,1995 A Toolbox for Alleviating Traffic Congestion and Enhancing Mobility

Michael D. Meyer,1997 **Guidelines for Right-turn Treatments at Unsignalized Intersections and Driveways**

Tanweer Hasan,Robert W. Stokes,1996 Guidelines for right turn treatments at unsignalized intersections and driveways on the state highway system of Kansas were developed in this study Two types of treatments full width lane and taper were considered over the do nothing radius treatment THe guidelines were based on the results of an economic analysis conducted over a wide range of traffic volumes and speeds A simple model was developed to determine the operational effects of right turn movements at unsignalized intersections and driveways on high speed highways The operational effects were estimated in terms of delay and excess fuel consumption experienced by through vehicles due to the right turns The relationship between speed differential and accidents was used to estimate the reduction in right turn same direction rear end accidents that would be expected to result from the provision of a right turn treatment Comparison with other guidelines and validation of existing right turn treatments at the study sites indicate that the range of the guidelines developed in this study isre reasonable They are also more definitive because they consider highway operating speed They are more flexible in determining an appropriate treatment because an intermediate taper treatment is considered

**Summary of Progress -**

**National Cooperative Highway Research Program** National Cooperative Highway Research Program,2005

*Engineering Study Guide for Evaluating Intersection Improvements* James A. Bonneson,Michael D. Fontaine,2001

Signalized Intersections Lee August Rodegerdts,2004 This guide provides a single comprehensive document with methods for evaluating the safety and operations of signalized intersections and tools to remedy deficiencies The treatments in this guide range from low cost measures such as improvements to signal timing and signage to high cost measures such as intersection reconstruction or grade separation Topics covered include fundamental principles of user needs geometric design and traffic design and operation safety and operational analysis techniques and a wide variety of treatments to address existing or projected problems including individual movements and approaches pedestrian and bicycle treatments and corridor techniques It also covers alternative intersection forms that improve intersection performance through the use of indirect left turns and other treatments Each treatment includes a discussion of safety operational performance multimodal issues and physical and economic factors that the practitioner should consider Although the guide focuses primarily on high volume signalized intersections many treatments are applicable for lower volume intersections as well The information contained in this guide is based on the latest research available on treatments and best practices in use by jurisdictions across the United States Additional resources and references are highlighted for the student practitioner

researcher or decisionmaker who wishes to learn more about a particular subject

## Decoding Nchrp Report 279 Intersection Channelization Design Guide: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Nchrp Report 279 Intersection Channelization Design Guide**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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