

Safer Roads Guide To Road Safety Engineering

Safer RoadsA Guide to Road Safety EngineeringGower Technical

Examine the Prevalence and Geography of Road CollisionsSpatial Analysis Methods of Road Traffic Collisions centers on the geographical nature of road crashes, and uses spatial methods to provide a greater understanding of the patterns and processes that cause them. Written by internationally known experts in the field of transport geography, the bo

In most countries two-lane rural roads make up about 90 percent of rural networks and account for about 60 percent or more of highway fatalities worldwide - 500,000 people per year. Based on new research and the demands of many design professionals this book provides an understandable scientific framework for the application of quantitative safety evaluation processes on two-lane rural roads. The methodology described will support the achievement of quantified measures of 1) design consistency, 2) operating speed consistency, and 3) driving dynamic consistency. All three criteria are evaluated in three ranges described as "good", "fair" and "poor". It has been proved that the results of these criteria coincide with the actual accident situation prevailing on two-lane rural roads. By using the "good" ranges sound alignments in plan and profile, which match the expected driving behaviour of motorists, can be achieved. The safety criteria are then combined into an overall safety module for a simplified general overview of the safety evaluation process. The authors also encourage the coordination of safety concerns with important economic, environmental and aesthetic considerations. A CD-ROM with practical applications accompanies the text. This book will be an invaluable aid to educators, students, consultants, highway engineers and administrators, as well as scientists in the fields of highway design and traffic safety engineering.

Bicycling Complete Book of Road Cycling Skills

Chapters 16, 17, 18, 19, 20, 22 (tutorials 4, 5, 6), 23 (updated), 24, 25, 26 (updated). Collection C

Local Highway Safety Studies

CAREC Road Safety Engineering Manual 4

Spatial Analysis Methods of Road Traffic Collisions

Road Environment Safety

Bicycling Complete Book of Road Cycling Skills is a comprehensive guide to road cycling skills and safety from the most trusted name in cycling, Bicycling magazine. This completely revised edition includes contemporary expert sources, fresh photography, and cutting-edge information on cycling technology, nutrition and supplementation, training, riding techniques, safety, and performance. It also features advice on riding in various weather conditions, at certain times of the year, and on various types of roads. Bicycling Complete Book of Road Cycling Skills also includes specific workouts, bike-selection advice, apparel suggestions, nutrition information, and an entire chapter on medical concerns. Backed by the authority of the most trusted name in cycling, this is a book no road cyclist should be without.

This guide provides a practical step-by-step procedure that can be used to identify, analyze, and correct safety deficiencies on relatively low volume roadways.

Following an in-depth review of the characteristics of road crashes in rural areas, the book proposes a series of safety measures, focusing on infrastructure management, enforcement, innovative tools, such as intelligent transport systems, and trauma management.

Public Engagement and Social Science

Accident Mitigation Guide for Congested Rural Two-lane Highways

Global Street Design Guide

Safe Roads for All

Planning for Walking and Cycling in Urban Environments

Safer by Design

Although society has become increasingly dependent on the timely operation of logistics systems, we still face many problems regarding efficiency, the environment, energy consumption, and safety in urban transport and logistics--under normal cases and in disasters. As such, understanding how to address these challenges has become essential for creating better urban planning and policy implementation. Presenting the best practices of leading experts from around the world, Urban Transportation and Logistics: Health, Safety, and Security Concerns provides cutting-edge concepts and a vision for urban transport and logistics relating to human security. Its comprehensive coverage supplies the foundation for examining transport and logistics systems in urban areas from the viewpoint of safety and security considerations on human life. Topics covered include: Hazardous material transport Healthy transport Road safety Network design for freight transport and supply chain Transport and logistics in Asian cities Vehicle routing and scheduling with uncertainty Urban transport and logistics in natural disasters Future perspectives on urban freight transport The book addresses Information and Communication Technologies (ICT) and Intelligent Transport System (ITS) applications within urban logistics. It considers supply chains, road safety in hazardous material transport, and logistics and transport design in mixed traffic areas. It also introduces the notion of the megalopolis and the need for improved planning relative to human usage, freight transportation, and city logistic planning. This book provides numerous examples and case studies of real-world scenarios from around the world, making it useful for both practitioners and researchers involved in urban transport and logistics planning.

This guide addresses highway traveler and road worker safety in construction zones. It is proposed that work zones should be maintained, operated and designed so that the work is credible, conspicuous, clear and consistent.

Modern highway engineering reflects an integrated view of a road system's entire lifecycle, including any potential environmental impacts, and seeks to develop a sustainable infrastructure through careful planning and active management. This trend is not limited to developed nations, but is recognized across the globe. Edited by renowned authority

Sustainable Transport

Auckland Region Road Safety Action Plan

A Guide to Road Safety Engineering

Users' Guide

Pedestrian Safety

Road Engineering for Development

"The Highway Safety Manual (HSM) is a resource that provides safety knowledge and tools in a useful form to facilitate improved decision making based on safety performance. The focus of the HSM is to provide quantitative information for decision making. The HSM assembles currently available information and methodologies on measuring, estimating and evaluating roadways in terms of crash frequency (number of crashes per year) and crash severity (level of injuries due to crashes). The HSM presents tools and methodologies for consideration of 'safety' across the range of highway activities: planning, programming, project development, construction, operations, and maintenance. The purpose of this is to convey present knowledge regarding highway safety information for use by a broad array of transportation professionals"--P. xxiii.

The Global Street Design Guide is a timely resource that sets a global baseline for designing streets and public spaces and redefines the role of streets in a rapidly urbanizing world. The guide will broaden how to measure the success of urban streets to include: access, safety, mobility for all users, environmental quality, economic benefit, public health, and overall quality of life. The first-ever worldwide standards for designing city streets and prioritizing safety, pedestrians, transit, and sustainable mobility are presented in the guide. Participating experts from global cities have helped to develop the principles that organize the guide. The Global Street Design Guide builds off the successful tools and tactics defined in NACTO's Urban Street Design Guide and Urban Bikeway Design Guide while addressing a variety of street typologies and design elements found in various contexts around the world.

With a wide range of contributions from America, Australia, Europe as well as the UK, Creating Sustainable Transport sums up many of the lessons learned and how they can be applied in improved planning. Non-motorized transport planning depends on combining improvements to infrastructure with education. The book examines both national strategies and local initiatives in cities around the world, including such topics as changes to existing road infrastructure and the integration of cycling and walking with public transport. The contributors consider topics such as developing healthier travel habits and ways of promoting cycling and walking as alternatives to the car.

Your Guide to Riding Faster, Stronger, Longer, and Safer

ITF Research Reports Sharing Road Safety Developing an International Framework for Crash Modification Functions

Health, Safety, and Security Concerns

Developing an International Framework for Crash Modification Functions

Gravel Roads

An Informational Guide

This manual is a practical point of reference for the provision of safer pedestrian facilities in Central Asia Regional Economic Cooperation (CAREC) countries. It focuses on the physical road infrastructure that can help pedestrians safely cross, and walk along, roads. It also outlines proven facilities that have been shown to assist pedestrians including those in the high-risk groups. Aimed at engineers, project managers, planners, traffic police, and other decision-makers, the manual shows how wise investment in pedestrian facilities can save lives, prevent injuries, and return major economic benefits to CAREC countries.

Developing countries in the tropics have different natural conditions and different institutional and financial situations to industrialized countries. However, most textbooks on highway engineering are based on experience from industrialized countries with temperate climates, and deal only with specific problems. Road Engineering for Development (published as Highway and Traffic Engineering in Developing Countries in its first edition) provides a comprehensive description of the planning, design, construction and maintenance of roads in developing countries. It covers a wide range of technical and non-technical problems that may confront road engineers working in this area. The technical content of the book has been fully updated and current development issues are focused on. Designed as a fundamental text for civil engineering students this book also offers a broad, practical view of the subject for practising engineers. It has been written with the assistance of a number of world-renowned specialist professional engineers with many years experience in Africa, the Middle East, Asia and Central America.

Transportation Infrastructure Engineering: A Multimodal Integration, intended to serve as a resource for courses in transportation engineering, emphasizes transportation in an overall systems perspective. It can serve as a textbook for an introductory course or for upper-level undergraduate and first-year graduate courses. This book, unlike the widely used textbook, Traffic and Highway Engineering, serves a different purpose and is intended for a broader audience. Its objective is to provide an overview of transportation from a multi-modal viewpoint rather than emphasizing a particular mode in great detail. By placing emphasis on explaining the environment in which transportation operates, this book presents the big picture to assist students in understanding why transportation systems operate as they do and the role they play in a global society. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Non-Motorized Transport Integration into Urban Transport Planning in Africa

A Guide to Road Danger Reduction : a Good Practice Guide

A Foundational Safety System Concept to Make Roads Safer in the Decade 2021-2030

Roadside Design Guide

World Report on Road Traffic Injury Prevention

Highway Safety Manual

Though road safety systems do exist at national and international levels, enhanced bilateral efforts are urgently required to improve global road safety

The purpose of this guide is to provide basic information about: New programs, projects, and uses of highway funds authorized by the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA); Continuing programs, projects, and uses of highway funds authorized by previous legislation and continued by ISTEA; Discontinued programs, projects, and uses of highway funds authorized by previous legislation and continuing only until remaining available funds are obligated, transferred, or lapsed; and Inactive programs, projects, and uses of highway funds that have existed in recent time, some of which, although no longer active, were the basis for current programs, projects, or uses of highway funds, and hence, are of possible historic interest.

Drawing on social science conversations at a lively café in Bristol, this highly original book explores the value of public engagement in a wider social science context. The chapters range from themes such as the dialogic character of the social sciences, pragmatism in responses, and the underpinnings of managerial approaches to the restructuring of higher education. The first part reflects upon the different social and political inflections of public engagement. It is followed by chapters based upon talks at the café that were concerned with public engagement and the contribution of social science to a reflexive understanding of the dilemmas and practices of daily life. Together, the contributors offer a refreshing look at the role of social science in the societies it examines.

Urban Transportation and Logistics

The Handbook of Highway Engineering

A Guide for Planners and Engineers

Road Safety in Land Use Planning Guide

Improvements in Safe Working on Roads

Proceedings of the 18th International Road Federation World Meeting & Exhibition, Dubai 2021

The report serves as a guide to how research results can be shared internationally. It provides checklist for systematic review of road safety studies and a framework for standardising methodology.

TRB's National Cooperative Highway Research Program (NCHRP) Report 672: Roundabouts: An Informational Guide - Second Edition explores the planning, design, construction, maintenance, and operation of roundabouts. The report also addresses issues that may be useful in helping to explain the trade-offs associated with roundabouts. This report updates the U.S. Federal Highway Administration's Roundabouts: An Informational Guide, based on experience gained in the United States since that guide was published in 2000.

An international review of road safety engineering. This study illustrates the practices/procedures used in the identification of hazardous sites and the development of road/traffic countermeasures. It identifies the sources of accident problems and factors of human behaviour.

Transportation Infrastructure Engineering: A Multimodal Integration, SI Version

Towards Safer Roads in Developing Countries

How to Make Two-lane Rural Roads Safer

Roadway Safety Tools for Local Agencies

Advances in Road Infrastructure and Mobility

Human Factors Guidelines for Road Systems

NCHRP report 600 explores human factors principles and findings for consideration by highway designers and traffic engineers. The report is designed to help the nonexpert in human factors to consider more effectively the roadway user's capabilities and limitations in the design and operation of highway facilities.

What challenges do pedestrians and cyclists face in cities of the developing world? What opportunities do these cities have to provide for walking and cycling? Based on in-depth research conducted in Cape Town (South Africa), Dar es Salaam (Tanzania) and Nairobi (Kenya), this book explores these questions by presenting work on walking and cycling travel behaviour, the status of road safety in these cities, as well as an analysis of the infrastructure for walking and cycling, and the workings of the institutions responsible for planning for these modes. The book also presents case studies relating to particular opportunities and challenges, such as the development and evaluation of 'walking bus' interventions, and the opportunities micro-simulation of pedestrian interventions offers within a data-scarce environment. Non-motorized Transport Integration into Urban Transport Planning in Africa demonstrates that transport and urban planning remains situated in a logic of automobile-dependent transport planning and global city development. This logic of practice does not pay adequate attention to walking and cycling. It argues that a significant shift in both policy as well as political commitment is needed so as to prioritize walking and cycling as strategies for sustainable transport policy in urban Africa. This book will be a key text for practitioners and policy makers working in planning, transport policy and urban development in Africa, as well as students and scholars of African studies, development studies, urban geography, transport studies and sustainable development.

The purpose of this manual is to provide clear and helpful information for maintaining gravel roads. Very little technical help is available to small agencies that are responsible for managing these roads. Gravel road maintenance has traditionally been "more of an art than a science" and very few formal standards exist. This manual contains guidelines to help answer the questions that arise concerning gravel road maintenance such as: What is enough surface crown? What is too much? What causes corrugation? The information is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right.

A Guide to Federal-aid Programs, Projects and Other Uses of Highway Funds

A Methodology for Integrating Roadway Safety Hardware Management Into the Overall Highway Asset Management Program

Summary

Safer Roads

A Guide to Road Safety Engineering

Every day thousands of people are killed and injured on our roads. Millions of people each year will spend long weeks in the hospital after severe crashes and many will never be able to live, work or play as they used to do. Current efforts to address road safety are minimal in comparison to this growing human suffering. This report presents a comprehensive overview of what is known

about the magnitude, risk factors and impact of road traffic injuries, and about ways to prevent and lessen the impact of road crashes. Over 100 experts, from all continents and different sectors -- including transport, engineering, health, police, education and civil society -- have worked to produce the report. Charts and tables.

A Practitioners Reference Guide to Safer Roads

Roundabouts

Towards Safer Roads in Developing Countries. A Guide for Planners and Engineers. Prepared by the Ross Silcock Partnership on Behalf of and in Association With, the Overseas Unit of the Transport and Road Research Laboratory

A Practitioner's Reference Guide to Safer Roads

Scientific Background and Guide for Practical Application

Guide for Traffic Control Devices on Forest Development Roads