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Robert A. Douglas

Low-Volume Road Engineering Robert A. Douglas, 2018-10-09 Everything that sustains us - grown, mined, or drilled begins its journey to us on a low-volume road (Long). Defined as roads with traffic volumes of no more than 400 vehicles per day, they have enormous impacts on economies, communication, and social interaction. Low-volume roads comprise, at one end of the spectrum, farm-to-market roads, roads in developing countries, northern roads, roads on aboriginal lands and parklands; and at the other end of the spectrum, heavy haul roads for mining, oil and gas, oil sands extraction, and forestry. Low-Volume Road Engineering: Design, Construction, and Maintenance gives an international perspective to the engineering design of low-volume roads and their construction and maintenance. It is a single reference drawing from the dispersed literature. It lays out the basic principles of each topic, from road location and geometric design, pavement design, slope stability and erosion control, through construction to maintenance, then refers the reader to more comprehensive treatment elsewhere. Wherever possible, comparisons are made between the standard specifications and practices existing in the US, Canada, the UK, South Africa, Australia and New Zealand. Topics covered include the following: Road classification, location, and geometric design Pavement concepts, materials, and thickness design Drainage, erosion and sediment control, and watercrossings Slope stability Geosynthetics Road construction, maintenance, and maintenance management Low-Volume Road Engineering: Design, Construction, and Maintenance is a valuable reference for engineers, planners, designers and project managers in consulting firms, contracting firms and NGOs. It also is an essential reference in support of university courses on transportation engineering and planning, and on mining, oil and gas, and forestry infrastructure.

The Handbook of Highway Engineering T.F. Fwa,2005-09-28 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

Rural Road Engineering in Developing Countries Jasper Cook, Robert Christopher Petts, 2023-08-02 Rural Road Engineering in Developing Countries provides a comprehensive coverage of the planning, design, construction, and maintenance of rural roads in developing countries and emerging nations. It covers a wide range of technical and non-technical problems that may confront road engineers working in the developing world, focusing on rural roads which provide

important links from villages and farms to markets and offer the public access to health, education, and other services essential for sustainable development. Most textbooks on road engineering are based on experience in industrialised countries with temperate climates or deal only with specific issues, with many aspects of the design and construction of roads in developing regions stemming from inappropriate research undertaken in Europe and the USA. These approaches are frequently unsuitable and unsustainable for rural road network environments, particularly in low to middle income countries. This book takes on board a more recent research and application focus on rural roads, integrating it for a broad range of readers to access current information on good practice for sustainable road engineering in developing countries. The book particularly suits transportation engineers, development professionals, and graduate students in civil engineering.

Austroads Pavement Design Guide ,1994

Climate Change Adaptation for Transportation Systems Michael A.P. Taylor,2020-09-29 Climate Change Adaptation for Transportation Systems examines the international state of knowledge on climate change and weather and their potential impacts on the planning, design and serviceability of transportation networks. The book describes alternative frameworks for adapting to climate change in the planning, provision and management of transportation systems. It discusses methods and models for including climate and weather factors in planning and design for use in transportation asset systems under risk and uncertainty. Giving specific attention to road, rail, ports and harbors, the book provides users with the tools they need in decision-making approaches where there is uncertainty. - Examines the impact of climate change and extreme weather on the performance and serviceability of transportation assets - Explores the issues, methods, frameworks, models and techniques for assessing transportation systems' performance, including considerations for climate and the environment - Provides case studies from around the world to illustrate methods, covering a wide range of climatic conditions, considerations and approaches for transportation planners

Technical Basis of Austroads Pavement Design Charts for Light Traffic AP-T35-05 Austroads Ltd,2005

Sustainable Civil Engineering Varinder S. Kanwar, Sanjay Kumar Shukla, Siby John, Harpreet Singh Kandra, 2023-06-16 This reference text establishes linkages between the user industries and the providers of clean technologies and sustainable materials for a rapid transformation of the small and medium-sized enterprises (SMEs). The text covers several aspects of sustainable applications including clean technologies, climate change and its effects, sustainable buildings (smart cities), sustainability in road construction, sustainable use of geosynthetic, innovative materials, and sustainable construction practices. The text will be useful for senior undergraduate students, graduate students, and researchers in the fields of civil engineering and other infrastructure-related professionals and planners. The book: Discusses clean technologies and sustainable materials in depth Covers concepts of sustainability in road construction, and water retaining structures Examines environmental policies and practices Discusses climate change and its effects in a comprehensive manner Covers

sustainable buildings including smart cities As this book discusses concepts related to sustainable civil engineering practices in a single volume, it will be an ideal reference text for everyone aiming at developments of sustainable infrastructures.

Pavement Design for Light Traffic Austroads Ltd, 2006

Eleventh International Conference on the Bearing Capacity of Roads, Railways and Airfields Inge Hoff, Helge Mork, Rabbira Saba, 2021-11-09 Innovations in Road, Railway and Airfield Bearing Capacity – Volume 1 comprises the first part of contributions to the 11th International Conference on Bearing Capacity of Roads, Railways and Airfields (2022). In anticipation of the event, it unveils state-of-the-art information and research on the latest policies, traffic loading measurements, in-situ measurements and condition surveys, functional testing, deflection measurement evaluation, structural performance prediction for pavements and tracks, new construction and rehabilitation design systems, frost affected areas, drainage and environmental effects, reinforcement, traditional and recycled materials, full scale testing and on case histories of road, railways and airfields. This edited work is intended for a global audience of road, railway and airfield engineers, researchers and consultants, as well as building and maintenance companies looking to further upgrade their practices in the field.

Pavement Design ,1992 Pavement design: a guide to the structural design of road pavements.

Review of Austroads pavement design guide ,2000

Road & Transport Research ,2004

Guide to Pavement Technology Kieran G. Sharp,

2001 Austroads Pavement Design Guide (final Draft) Austroads,2001

Guide to Pavement Technology Geoff Jameson, 2012 Knowledge of pavement technology is of critical importance for all transportation agencies in Australia and New Zealand. Austroads and others (e.g. state road authorities, local government, and industry) have amassed a great deal of knowledge on pavement technologies, techniques, and considerations. The purpose of the Austroads Guide to Pavement Technology is to assemble this knowledge into a single authoritative electronic publication that will be a readily available, accessible and comprehensive resource for practitioners in Australia and New Zealand. The target audience for the Austroads Guide to Pavement Technology includes all those involved with the management of roads, including industry and students seeking to learn more about the fundamental concepts, principles, issues and procedures associated with pavement technology. Part 2: Pavement Structural Design-provides advice for the structural design of sealed road pavements. The advice has been generally developed from the approaches followed in the Austroads member authorities. However, as it encompasses the wide range of materials and conditions found in Australia and New Zealand, some parts are broadly based. This part covers the assessment of input parameters needed for design, design methods for flexible and ridgid pavements, and gives guidance to the economic comparisons of alternative pavement designs.

Moving Freight with Better Trucks International Transport Forum, 2011-05-18 The purpose of this report is to identify potential improvements in terms of more effective safety and environmental regulation for trucks, backed by better systems of enforcement, and to identify opportunities for greater efficiency and higher productivity. The report is based on a review of literature, consultation among stakeholders, and research and analysis from working group members. It also presents the results of a comprehensive benchmarking study of 39 truck configurations in operation around the world – from typical workhorse vehicles to very high capacity vehicles – and assesses their performance in terms of dynamic stability, productivity and impact on the infrastructure.

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Guide to Pavement Technology Part 2 Michael Moffatt, 2017-12-22

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