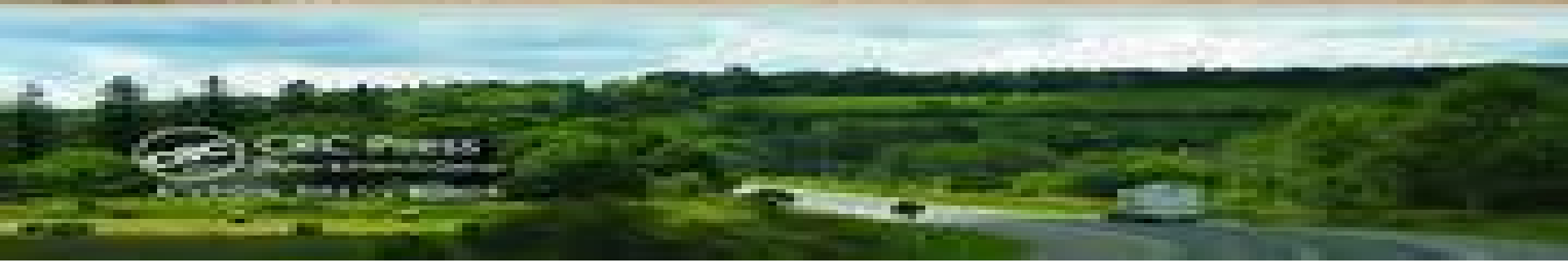


Low-Volume Road Engineering

Design, Construction, and Maintenance

Robert A. Douglas



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Jiyuan Zhang



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Low-Volume Road Engineering Robert A. Douglas, 2017-07-26 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 *Low-Volume Road Engineering* Robert A. Douglas,2015-12-16 Everything that sustains us grown mined or drilled begins its journey to us on a low volume road 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 This book 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 Low Volume Roads 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 *Low-Volume Roads Engineering - Best Management Practices Field Guide* Gordon Keller,James Sherar,Forest Service Usda,2023-11-30 This Low Volume Roads Engineering Best Management Practices Field Guide is intended to provide an overview of the key planning location design construction and maintenance aspects of roads that can cause adverse environmental impacts and to list key ways to prevent those impacts Best Management Practices are general techniques or design practices that when applied and adapted to fit site specific conditions will prevent or reduce pollution and maintain water quality BMPs for roads have been developed by many agencies since roads often have a major adverse impact on water quality and most of those impacts are preventable with good engineering and management practices Roads that are not well planned or located not properly designed or constructed not well maintained or not made with durable materials often have negative effects on water quality and the environment *Low-volume Roads Engineering* Gordon R. Keller,James Sherar,United States. Forest Service,United States. Agency for International Development,United States. Forest Service. Office of International Programs,Virginia Polytechnic Institute and State University. Conservation Management Institute,2003 **Spon's Civil Engineering and Highway Works Price Book 2017** AECOM,2016-11-03 Tender prices performed strongly again in 2016 with a provisional rate increase of 10 3% versus a year earlier SPON S CIVIL ENGINEERING AND HIGHWAY WORKS PRICE BOOK 2017 from AECOM gives costs for both general and civil engineering works and highway works It provides a full breakdown of labour plant and material elements with labour rates updated It is an essential component of infrastructure estimating maturity

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Low-Volume Roads Engineering: Best Management Practices Field Guide James James Sherar, Usda Forest USDA Forest Service, U. S. Agency US Agency for International Development (USAID), Gordon Gordon Keller, 2020-11-29 This Low Volume Roads Engineering Best Management Practices Field Guide is intended to provide an overview of the key planning location design construction and maintenance aspects of roads that can cause adverse environmental impacts and to list key ways to prevent those impacts Best Management Practices are general techniques or design practices that when applied and adapted to fit site specific conditions will prevent or reduce pollution and maintain water quality BMP s for roads have been developed by many agencies since roads often have a major adverse impact on water quality and most of those impacts are preventable with good engineering and management practices Roads that are not well planned or located not properly designed or constructed not well maintained or not made with durable materials often have negative effects on water quality and the environment Black and white print [Economics of Design Standards for Low-volume Rural Roads](#) Clarkson Hill Oglesby, M. J. Altenhofen, 1969 he objective of this study is to examine prevailing rural design standards to determine their economic justification This would evaluate in depth the cost of some of the most significant design practices for example roadway and shoulder width and surfacing type Resulting user benefits such as operating accident and time savings would be weighed against the cost of individual features In addition to the analysis of the user benefit relationships the economic and social

consequences to local residents businesses and communities should be studied and a suitable means of including them in the reckoning of warranted levels of improvement should be found Federally Coordinated Program of Research and Development in Highway Transportation: Improved design to reduce costs, extend life expectancy and insure structural safety ,1980 **Sustainable Ecological Engineering Design** Lloyd Scott,Mohammad Dastbaz,Christopher

Gorse,2020-06-29 Through research and proven practice the aim of the International Conference of Sustainable Ecological Engineering Design for Society SEEDS is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well being of society The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse The SEEDS conference addresses the interdependence of people the built and natural environments and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change **New Developments in Soil Characterization and Soil Stability** Wissem Frikha,Shima Kawamura,Wen-Cheng Liao,2018-07-18 This book presents new studies dealing with the attempts made by the scientists and practitioners to address contemporary issues in geotechnical engineering such as characterization of soil geomaterials soil stability and some other geomechanics issues that are becoming quite relevant in today s world Papers were selected from the 5th GeoChina International Conference on Civil Infrastructures Confronting Severe Weathers and Climate Changes From Failure to Sustainability held on July 23 25 2018 in HangZhou China **Highway Engineering** L.R. Kadiyali,2017 This book on Highway Engineering shall be useful for B E B Tech M E M Tech students of Civil Engineering It shall also be useful for practicing Engineering and designers *Principles, Practice and Design of Highway Engineering* Sharma S.K.,2014 For B E B Tech M E M Tech Students of Civil Engineering Also for Practising Engineering and Designers **Federally Coordinated Program of Research and Development in Highway Transportation** ,1980

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

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