



Advanced Rail Geotechnology - Ballasted Track

Buddhima Indraratna
Wenadi Salim & Cholachat Pujiyakumjorn

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Ballast plays a vital role in transmitting and distributing train wheel loads to the underlying sub ballast and subgrade. Bearing capacity of track, train speed, riding quality and passenger comfort all depend on the stability of ballast through mechanical interlocking of particles. Ballast attrition and breakage occur progressively under heavy cyclic loading.

Advanced Rail Geotechnology - Ballasted Track Buddhima Indraratna, Cholachat Rujikiatkamjorn, Wadud Salim, 2023-08-14

Ballast plays a vital role in transmitting and distributing the train wheel loads to the underlying track substructure. The load bearing capacity, safe train speed and the levels of noise and vibration as well as passenger comfort depend on the behaviour of ballast through particle interlocking and the corresponding deformation of this granular assembly. Attrition and breakage of ballast occur progressively under heavy and continual cyclic loading, causing track deterioration and rail misalignment, affecting safety while exacerbating the intensity of track maintenance. In the absence of realistic computational models, the track substructure is traditionally designed using mostly empirical approaches. In this book, the authors present the detailed information on the strength, deformation and degradation aspects of fresh and recycled ballast under monotonic, cyclic and impact loading using innovative geotechnical testing devices. A constitutive model for ballast incorporating particle breakage is presented, representing a more realistic stress-strain response. The mathematical formulations and numerical models are validated using controlled experimental simulations and fully instrumented field trials. Revised ballast gradation is described to provide greater track resiliency and extended longevity. The book also provides a detailed description of geosynthetics for substructure improvement, considering track deterioration caused by particle degradation, fouling and impeded drainage. New to this second edition are extensive discussions on subgrade soil stabilisation, causes and mechanisms of soil fluidisation, mud pumping under cyclic loading, and preventive and remedial measures to alleviate undue instability of ballast tracks. This book should prove most beneficial for final year civil engineering students and for postgraduate teaching and learning. It is an ideal supplement for practising railway engineers and researchers engaged in the challenging tasks of future track design for heavier and faster trains.

Advanced Rail Geotechnology - Ballasted Track Buddhima Indraratna, Wadud Salim, Cholachat Rujikiatkamjorn, 2011-03-16

Ballast plays a vital role in transmitting and distributing train wheel loads to the underlying sub ballast and subgrade. Bearing capacity of track, train speed, riding quality and passenger comfort all depend on the stability of ballast through mechanical interlocking of particles. Ballast attrition and breakage occur progressively under heavy cyclic loading.

Advanced Rail Geotechnology - Ballasted Track Yunlong Guo, Guoqing Jing, 2025-07-01

Resilient, Sustainable and Smart Ballasted Railway Track explores the optimization of railway ballast tracks to achieve resilience, sustainability and intelligence in railway infrastructure. It summarizes and examines new technologies and developments that

address unresolved rapid defects in track components such as rail damage track stability ballast flight and ballast fouling This book discusses the application of innovative materials derived from waste and recycled railway components including derived aggregates recycled ballast Neoballast and polyurethane often referred to as ballast glue This book examines state of the art structural health monitoring techniques such as smart sleepers interferometric synthetic aperture radar ground penetrating radar and inspection robots Includes research methodologies and directions for optimizing track structure applying new materials and incorporating new AI and inspection technologies Covers the basic principles and technologies of railway structures to enhance an understanding of railway engineering Provides information on railway asset management and solutions for railway infrastructure issues for the industry railway managers and other stakeholders

Geotechnics for Transportation Infrastructure Ravi Sundaram,Jagdish Telangrao Shahu,Vasant Havanagi,2019-06-12 This book

presents selected papers from the International Symposium on Geotechnics for Transportation Infrastructure ISGTI 2018 The research papers cover geotechnical interventions for the diverse fields of policy formulation design implementation operation and management of the different modes of travel namely road air rail and waterways This book will be of interest to academic and industry researchers working in transportation geotechnics as also to practicing engineers policy makers and civil agencies

Waste Materials Utilisation for Transport Infrastructure Buddhima Indraratna,Yujie Qi,Cholachat Rujikiatkamjorn,2025-03-28

As natural geologic materials become scarce nations around the world are embracing a circular economy perspective to reduce their carbon footprint This book provides a unique perspective on this shift by highlighting several methods of waste materials recycling for use in civil infrastructure construction and transportation geotechnics The authors explore innovative and cost effective solutions to modern day waste management problems through the use of granular waste materials from mining and mineral processing industries power plants steel manufacturing rubber tyres and demolished buildings in construction and soft ground stabilisation This book contains a rich repository of experimental studies conducted on recycled materials and industry byproducts using static and dynamic geotechnical testing 1 1 scale physical modelling through large scale process simulation testing and fully instrumented field monitoring With fresh insights from international experts this book will transform transportation infrastructure practices into a new paradigm This is a valuable resource for academics practitioners and postgraduate researchers in the fields of transportation geotechnics ground improvement and sustainable infrastructure engineering

Railway Track and Structures ,1998 Canadian Geotechnical Journal ,2011

Mechanics of Ballasted Rail Tracks Buddhima Indraratna,Wadud Salim,2005-08-11 In this book the authors discuss testing of ballast including the strength deformation and degradation aspects of fresh and recycled ballast under monotonic and cyclic loading The effectiveness of geosynthetics in stabilising recycled ballast has also been examined A new stress strain constitutive model for ballast incorporating particle breakage is presented Finally a new range of particle gradations balancing the strength and permeability requirements has been proposed for future rail tracks This

book is intended as a reference text for final year civil engineering students and postgraduates and for practicing railway engineers with the task of modernizing existing designs **Railway Geotechnics** Dingqing Li,James Hyslip,Ted Sussmann,Steven Chrismer,2015-09-17 Links Geotechnics with Railway Track Engineering and Railway Operation Good railway track and railway operations depend on good geotechnics in several different ways and at varying levels Railway Geotechnics covers track track substructure load environment materials mechanics design construction measurements and management Illustrated by **Ballast Railroad Design: SMART-UOW Approach** Buddhima Indraratna,Trung Ngo,2018-06-27

The rail network plays an essential role in transport infrastructure worldwide A ballasted track is commonly used for several reasons including economic considerations load bearing capacity rapid drainage and ease of maintenance Given the ever increasing demand for trains to carry heavier axle loads at greater speeds traditional design and construction must undergo inevitable changes for sustainable performance Ballast is an unbounded granular assembly that displaces when subjected to repeated train loading affecting track stability During heavy haul operations ballast progressively deteriorates and the infiltration of fluidized fines mud pumping from the underlying substructure and subgrade decreases its shear strength and also impedes drainage while increasing track deformation and associated maintenance Features serves as a useful guide to assist the practitioner in new track design as well as remediating existing tracks research discussed in this book has made considerable impact on the railway industry resulting from collaborative research between academia and industry incorporating sophisticated laboratory tests computational modelling and field studies This book presents a comprehensive procedure for the design of ballasted tracks based on a rational approach that combines extensive laboratory testing computational modelling and field measurements conducted over the past two decades Ballast Railroad Design SMART UOW Approach will not only become an imperative design aid for rail practitioners but will also be a valuable resource for postgraduate students and researchers alike in railway engineering

Track Geotechnology and

Substructure Management Ernest Theodore Selig,John M. Waters,1994-10-05 This comprehensive study provides practical advice and guidance on the important topics of rail transport and ground engineering the use of which will result in optimum quality with the minimum maintenance effort and the most economical use of resources The authors have synthesized all of their international knowledge and experience in this field and produced for the first time a definitive guide for the design construction maintenance and renewal of railway track as they relate to geotechnology *Railroad Research Bulletin* ,1981

Civil Engineering ,1967 Civil Engineering and Public Works Review ,1967 High Speed Railway Track

Dynamics Xiaoyan Lei,2021-12-15 The second edition of this book systematically summarizes the latest research findings on high speed railway track dynamics made by the author and his research team over the past decade It explores cutting edge issues concerning the basic theory of high speed railways covering the dynamic theories models algorithms and engineering applications of the high speed train and track coupling system Presenting original concepts systematic theories and advanced

algorithms the book places great emphasis on the precision and completeness of its content. The chapters are interrelated yet largely self contained allowing readers to either read through the book as a whole or focus on specific topics. It also combines theories with practice to effectively introduce readers to the latest research findings and developments in high speed railway track dynamics. It offers a valuable resource for researchers, postgraduates and engineers in the fields of civil engineering, transportation, highway and railway engineering.

Railway Track and Structures, 1974 **Track/train Dynamics and Design** Gerald James Moyar, Walter D. Pilkey, Barbara Pilkey, 1978 *Railway Track and Track Work* Edward Ernest Russell Tratman, 1901

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