



Advanced Rail Geotechnology – Ballasted Track

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Wadud Salim & Cholschat Rujikiatkamjorn

Advanced Rail Geotechnology Ballasted Track

**Buddhima Indraratna, Cholachat
Rujikiatkamjorn, Wadud Salim**

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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.

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cyclic and impact loading using innovative geotechnical testing devices The book presents a new stress strain constitutive model for ballast incorporating particle breakage and validates mathematical formulations and numerical models using experimental evidence and field trials The text also elucidates the effectiveness of various commercially available geosynthetics for enhancing track drainage and stability It presents revised ballast gradations for modern high speed trains capturing particle breakage and describes the use of geosynthetics in track design It also provides insight into track design capturing particle degradation fouling and drainage This book is ideal for final year civil engineering students and postgraduates and is a solid reference for practicing railway engineers and researchers with the task of modernizing existing track designs for heavier and faster trains

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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, 2019-05-30 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 *Geotechnical Innovation for Transport Infrastructures* Sanjay Shrawan Nimbalkar, Prabir K. Kolay, Yifei Sun, 2020-09-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

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Construction in Geotechnical Engineering

Madhavi Latha Gali,P. Raghuv eer Rao,2020-09-12 This volume comprises select papers presented during the Indian Geotechnical Conference 2018 This volume discusses construction challenges and issues in geotechnical engineering The contents cover foundation design and analysis issues related to geotechnical structures including dams retaining walls embankments and pavements and rock mechanics and construction in rocks and rocky environments Many of the papers discuss live case studies related to important geotechnical engineering projects worldwide providing useful insights into the realistic designs and constructions This volume will be of interest to students researchers and practitioners alike

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