



Advanced Rail Geotechnology – Ballasted Track

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Advanced Rail Geotechnology Ballasted Track

Karin Nielsen-Saines



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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.

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 causing track deterioration and rail misalignment affecting safety and demanding frequent and costly track maintenance. In the absence of realistic constitutive models the track substructure is traditionally designed using empirical approaches. In *Advanced Rail Geotechnology - Ballasted Track* the authors present 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 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 **Advanced Rail Geotechnology - Ballasted Track** Buddhima

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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

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