

Characterization of Permanent Deformation Of Subgrade Soils Using Cyclic Loading Test

Nahla Y. Ahmad Ali A. Alwash
Babylon University - Civil Engineering
Anmar Faleh Degan
Engineering Researcher

Abstract

Permanent deformation of subgrade soils is the accumulation of plastic deformation in soils due to continuous repeated loads from traffic loading. The main objective of this study is to investigate some of the factors that affect the permanent deformation of subgrade soils such as soil types, compaction moisture content, applied stress and dry density. Also, to formulate regression models which have been obtained to predict the permanent strain in subgrade soils as related to moisture content, time of loading, dry density and applied stress by using STATISTICA software.

This research also established a test procedure to use cyclic load test to measure the permanent strain of subgrade soils. The permanent strains were monitored during 60 load cycles, and the accumulated permanent deformations were determined. The test procedure and test results conducted on two types of soils that cover an important geographical area of Iraq, A4 and A6 soils are presented.

الخلاصة

التشوه الدائم لترب ما تحت الأساس هو تراكم التشوه اللدن في التراب بسبب الأحمال المتكررة المستمرة الناتجة من حركة المرور. إن الهدف الرئيسي لهذه الدراسة هو التحري حول بعض العوامل التي تسبب التشوه الدائم في ترب ما تحت الأساس مثل أنواع التربة، محتوى الرطوبة، الإجهاد المسلط والكتافة الجافة. كذلك تم صياغة موديلات للتنبؤ بالتشوه الدائم في التراب السطحية تعتمد على محتوى الرطوبة، زمن تسليط الحمل، الكتافة الجافة والإجهاد المسلط باستخدام برنامج (STATISTICA). كما إن هذا البحث قد وضع أسساً لإجراء اختبار باستخدام فحص الأحمال المتكررة لقياس التشوه الدائم في ترب ما تحت الأساس. تم مراقبة التشوه الدائم خلال 60 دورة متكررة وتم حساب التشوهات الدائمة المتراكمة. إن إجراء الاختبار تم على نوعين من أنواع التراب اللذين يغطيان منطقة جغرافية مهمة من العراق وهما التراب نوع ((A4 و)) A6.

Introduction

The major function of subgrade soils is to provide support to pavement structures. Under heavy traffic loads, subgrade soils may deform and contribute to distress in the overlying pavement structure. In asphalt pavement, this distress normally takes the form of cracking and rutting. It has been well documented that the subgrade soils plays a critical role in the initiation and propagation of permanent deformation of pavement structures and directly influences the pavement performance [Huang, 1993]. The subgrade soils, in particular the weak soft subgrades, contribute a significant portion (above 40 %) of the total pavement rutting [Majidzadeh, et al. 1978]. All pavement layers contribute to the permanent deformation of the pavement structure. Yet, subgrade does not attract as much attention as do the asphalt surface and granular base. The last are man-made products in some sense and their properties are relatively well

Deformation Characterization Of Subgrade Soils For

**Chandrakant S. Desai, Yang
Xiao, Musharraf Zaman, John Phillip
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Deformation Characterization Of Subgrade Soils For:

Computational and Experimental Simulations in Engineering Honghua Dai,2022-08-23 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 27th International Conference on Computational bioengineering geotechnical engineering offshore multi scale structural integrity materials design and computer modeling methods in engineering The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

Eleventh International Conference on the Bearing Capacity of Roads, Railways and Airfields Inge Hoff,Rabbira Saba,Helge Mork,2022-07-07 Innovations in Road Railway and Airfield Bearing Capacity Volume 3 comprises the third 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

Bituminous Mixtures and Pavements
VI A. Nikolaidis,2015-07-28 Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10 12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with Enhancements in Applied Geomechanics, Mining, and Excavation Simulation and Analysis Adam Sevi,Jose Neves,Honghua Zhao,2018-07-11 The book presents a compilation of studies regarding applied geomechanics mining and excavation analysis and simulation The material is suitable for presentation to senior undergraduate and post graduate students in both mining and geological engineering It should also be of interest to students of other aspects of Geomechanics and notably engineering geologists interested in mining and underground excavation design Practising mining engineers and rock mechanics engineers involved in mine design may use the book profitably to obtain an appreciation of the current state of engineering knowledge in their area of specialisation Papers were selected from the 5th GeoChina International Conference on Civil Infrastructures Confronting Severe Weathers and Climate Changes From Failure to Sustainability held in July 23 25 2018 in Hang Zhou China **CRREL Report** ,1986 *The Emergence of Unsaturated Soil Mechanics* National Research Council Canada,1999 This publication is an assemblage of selected papers that have been authored or co authored by D G Fredlund The substance of these papers documents the milestones of both the science of

unsaturated soil mechanics and the career of the author during his tenure as a faculty member in the Department of Civil Engineering at the University of Saskatchewan Saskatoon Canada

DSC/HISS Modeling Applications for Problems in Mechanics, Geomechanics, and Structural Mechanics Chandrakant S. Desai, Yang Xiao, Musharraf Zaman, John Phillip Carter, 2023-11-30 Understanding the mechanical behavior of solids and contacts interfaces and joints is vital for the analysis design and maintenance of engineering systems Materials may simultaneously experience the effects of many factors such as elastic plastic and creep strains different loading stress paths volume change under shear stress and microcracking leading to fracture and failure strain softening or degradation Typically the available models account for only one factor at a time however the disturbed state concept DSC with the hierarchical single surface HISS plasticity is a unified modeling approach that can allow for numerous factors simultaneously and in an integrated manner DSC HISS Modeling Applications for Problems in Mechanics Geomechanics and Structural Mechanics provides readers with comprehensive information including the basic concepts and applications for the DSC HISS modeling regarding a wide range of engineering materials and contacts Uniformity in format and content of each chapter will make it easier for the reader to appreciate the potential of using the DSC HISS modeling across various applications Features Presents a new and simplified way to learn characterizations and behaviors of materials and contacts under various conditions Offers modeling applicable to several different materials including geologic clays sands rocks modified geologic materials structured soils overconsolidated soils expansive soils loess frozen soils chemically treated soils hydrate bearing sediments and more

Resilient Modulus Properties of New Jersey Subgrade Soils, 2000

Modelling of the Resilient and Permanent Deformation Behaviour of Subgrade Soils and Unbound Granular Materials Haithem Soliman, 2015 Laboratory characterization of subgrade soils and unbound granular materials is an essential component of the Mechanistic Empirical Pavement Design Guide Pavement ME The design thickness and performance of a pavement structure are highly dependent on the deformation behaviour of subgrade and granular material Specifications for granular materials vary among transportation agencies based on the availability of materials climatic conditions and function Specifications aim to provide durable materials that meet design requirements and achieve the target design life with cost effective materials The objectives of the research are to evaluate resilient modulus of typical fine grained soils under traffic loading evaluate resilient modulus permanent deformation and permeability of typical unbound granular materials evaluate the effect of moisture and fines fraction on the performance of unbound granular materials and subgrade soil develop prediction models for resilient modulus to improve reliability of Level 2 inputs in the Pavement ME provide test data in support of updating Manitoba Infrastructure and Transportation specifications for unbound granular materials to improve the performance of pavement structures Resilient modulus tests were conducted on three types of subgrade soil high plastic clay sandy clay and silty sand sandy silt at four levels of moisture content Resilient modulus permanent deformation and permeability tests were conducted on six gradations

representing two types of granular material 100% crushed limestone and gravel at two levels of moisture content Prediction models were developed for resilient modulus and compared to the models developed under the Long Term Pavement Performance program The proposed models provided more reliable predictions with lower root mean square error The deformation behaviour of the granular materials was classified according to the shakedown and dissipated energy approaches Among the tested fines contents limestone and gravel materials with optimum fines contents of 4.5% and 9% respectively had better resistance to plastic deformation and higher resilient modulus The dissipated energy approach can be used to determine the stress ratio for the boundary between post compaction and stable zones from multistage triaxial testing Result of permeability tests showed that the hydraulic conductivity of unbound granular material increased as the fines content decreased **Canadian Geotechnical Journal**, 2004 **Proceedings of the 5th International**

Conference on Transportation Geotechnics (ICTG) 2024, Volume 7 Cholachat Rujikiatkamjorn, Jianfeng Xue, Buddhima Indraratna, 2024-10-22 This book presents select proceedings of the 5th International Conference on Transportation Geotechnics ICTG 2024 It includes papers on ground improvement methodologies dynamics of transportation infrastructure and geotechnical intricacies of mega projects It covers topics such as underground transportation systems and heights of airfields and pavements This book discusses diverse thematic landscapes offering profound explorations into sensor technologies data analytics and machine learning applications The publication highlights advanced practices latest developments and efforts to foster collaboration innovation and sustainable solutions for transportation infrastructure worldwide The book can be a valuable reference for researchers and professionals interested in transportation geotechnics

Fourth International Conference : Structural Design of Asphalt Pavements, August 22 Through 26, 1977, Horace H. Rackham Building Lecture Hall, the University of Michigan, Ann Arbor, Michigan, U.S.A.: Proceedings, 1977 *Resilient Properties of Colorado Soils* Shan-Tai Yeh, 1989 During the past 30 years pavement engineers have increasingly used the elastic layered system theory to predict the physical response of pavement structures in order to determine a proper pavement thickness The 1986 AASHTO Guide for Design of Pavement Structures has adopted resilient properties in its pavement design The committee for this Guide recognized that many state highway agencies do not have the proper equipment to determine the resilient modulus In the Design Guide correlation of the resilient modulus with the California bearing ratio and the R value are given However these correlations are general in nature and can be used temporarily and only for certain types of soils The committee has recommended that states develop their own correlations During this research study attempts were made to find a correlation between the resilient modulus and the R value for Colorado soils To accomplish this task an extensive laboratory testing program was conducted and the following correlation was established resilient modulus equals 3500 plus 125 times the R value Based on the results of this study this correlation was established for Colorado soils Verification of this correlation by additional tests on high quality subgrade i.e. A-1-b or

better will be needed After verification attempts will be made to incorporate this finding in the current CDOH Pavement Design Procedures

Annual Conference of the Roads and Transportation Association of Canada, Québec, 1976
Roads and Transportation Association of Canada,1976 **Proceedings** ,1979 Geometric Design and Operational Effects
National Research Council (U.S.). Transportation Research Board,1988 Resilient Modulus of Freeze-thaw Affected Granular Soils for Pavement Design and Evaluation ,1986 **Proceedings of the ... Annual Conference of Canadian Technical Asphalt Association** Canadian Technical Asphalt Association. Conference,1965 **Annual Conference Proceedings, Roads and Transportation Association of Canada** ,1976 Geographical Abstracts ,1978

Reviewing **Deformation Characterization Of Subgrade Soils For**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Deformation Characterization Of Subgrade Soils For**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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