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Ali Morovatdar, Massoud Palassi, Reza S. Ashtiani 2020, 12(5): 984-1000. doi: 10.1016/j.jrmge.2020.05.001 Abstract ... Strength reduction and step-loading finite element approaches in geotechnical engineering: Yingren Zheng; Xiaosong Tang; Shangyi Zhao; Chujian Deng; Wenjie Lei: null. 2009 Vol. 1 (1): 21-30 doi: 10.3724/SP.J.1235.2009.00021 : Abstract ?2387? PDF ?5256KB??4944 ...

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- Rashidi, M. and Ashtiani, S. R., Scale Effects in the Indirect Tensile and Unconfined Compressive Strength Tests of Cement-Stabilized Base Materials, ASCE's International Conference on Case Histories in Geotechnical Engineering, Geo-Congress 2019, Philadelphia, PA, USA, <https://doi.org/10.1061/9780784482124.064>

Publications - Reza S. Ashtiani

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Publications. Alternative Approaches for the Laboratory Evaluation of Moisture Susceptibility of Cement Stabilized Materials AIRFIELD AND HIGHWAY PAVEMENTS 2019: TESTING AND CHARACTERIZATION OF PAVEMENT MATERIALS (2019), Mohammad Rashidi, Reza S. Ashtiani. A Practical Approach for the Estimation of Strength and Resilient Properties of Cementitious Materials TRANSPORTATION RESEARCH RECORD 2672 ...

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This book includes a collection of research and practical papers aiming with key priority for improving the infrastructural sustainability for our well-being and day-to-day lives through novel developments. The united efforts through new developments in material, design, construction, maintenance, and testing of pavements from all over the world are taken under one umbrella. Topics include issues related to civil infrastructure such as the use of construction waste, recycled aggregates, service life prediction of pavements, mechanical behavior of SMA, control measures of ready mixed concrete, determination of landslide high-risk areas, Simulation of rock hydraulics in rock joint, sustainable planning for provision of basic infrastructural facilities in rural areas. It is anticipated that this book will support decisions regarding the optimal management and maintenance of civil infrastructures to support a more resilient and sustainable environment for infrastructure users.

Innovations in Road, Railway and Airfield Bearing Capacity – Volume 1 comprises the first 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.

This volume presents selected papers presented during the 4th International Conference on Transportation Geotechnics (ICTG). The papers address the geotechnical challenges in design, construction, maintenance, monitoring, and upgrading of roads, railways, airfields, and harbor facilities and other ground transportation infrastructure with the goal of providing safe, economic, environmental, reliable and sustainable infrastructures. This volume will be of interest to postgraduate students, academics, researchers, and consultants working in the field of civil and transport infrastructure. .

Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. Advances in Materials and Pavement Performance

Prediction II includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders The book will be invaluable to academics and engineers involved or interested in pavement engineering, pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

The aggregate base layer is a vital part of the flexible pavement system. Unlike rigid pavements, the base layer provides a substantial contribution to the load bearing capacity in flexible pavements, and this contribution is complex: stress dependent, moisture dependent, particle size dependent, and is anisotropic in nature. Furthermore, the response of the aggregate layer in the pavement structure is defined not only by resilient properties of the base layer but also by permanent deformation properties of the aggregate layer. Before the benefits of revolutionary changes in the typical pavement structures, such as deep unbound aggregate base (UAB) layers under thin hot mix asphalt surfaces and inverted pavement systems can be justified, an accurate assessment of the UAB is required. Several researchers identified that in order to properly assess the contribution of the UAB in the pavement structure, it is necessary to consider not only the vertical modulus but also the horizontal modulus as this substantially impacts the distribution of stresses within the pavement structure. Anisotropy, which is defined as the directional dependency of the material properties in unbound granular bases, is inherent even before the aggregate layer is subjected to traffic loads due to random arrangement of particles upon compaction. Distribution of particle contacts is dominated by the geometry of the aggregates as well as the compaction effort at the time of construction. Critical pavement responses and therefore performance of flexible pavements are significantly influenced by the level of anisotropy of aggregate layers. There are several ways to characterize the level of anisotropy in unbound aggregate systems. Previous research at Texas A & M University suggests functions of fitting parameters in material models (k values) as characterizers of the level of anisotropy. In the realm of geotechnical engineering, the ratio of the horizontal modulus to vertical modulus is commonly referred to as the level of anisotropy. When the vertical and horizontal moduli are equal, the system is isotropic, but when they differ, the system is anisotropic. This research showed that the level of anisotropy can vary considerably depending on aggregate mix properties such as gradation, saturation level, and the geometry of the aggregate particles. Cross anisotropic material properties for several unbound and stabilized aggregate systems were determined. A comprehensive aggregate database was developed to identify the contribution level of aggregate features to the directional dependency of material properties. Finally a new mechanistic performance protocol based on plasticity theory was developed to ensure the stability of the pavement foundations under traffic loads.

Pavement Design And Paving Material Selection are important for efficient, cost effective, durable, and safe transportation infrastructure Paving Materials and Pavement Analysis contains 73 papers examining bound and unbound material characterization, modeling, and performance of highway and airfield pavements. The papers in this publication were presented during the GeoShanghai 2010 International Conference held in Shanghai, China, June 3-5, 2010.

During the last two decades rock mechanics in Europe has been undergoing some major transformation. The reduction of mining activities in Europe affects heavily on rock mechanics teaching and research at universities and institutes. At the same time, new emerging activities, notably, underground infrastructure construction, geothermal energy developo

Contents: (1) Background of the Iran Sanctions Act (ISA): Key Provisions: Triggers and Available Sanctions; Waiver and Termination Authority; Iran Freedom Support Act Amendments; Effectiveness and Ongoing Challenges: Energy Routes and Refinery Investment: Refinery Construction; Significant Purchase Agreements; Efforts in the 110th and 111th Congress to Expand ISA Application; Other Energy-Related Sanctions Ideas; (2) Relationships to Other U.S. Sanctions: Ban on U.S. Trade and Investment With Iran; Treasury Department Targeted Financial Measures; Terrorism-Related Sanctions; Executive Order 13224; Proliferation-Related Sanctions; Efforts to Promote Divestment; Blocked Iranian Property and Assets. Tables.

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