

Observation and Geotechnical Tests, Vol. 21, No. 1, 1997.



Books Conferences News About Us Home Journals Jobs Home > Journal > Engineering > OJCE Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues OJCE> Vol.2 No.4, December 2012 • Special Issues Guideline OPEN ACCESS OJCE Subscription Analysis of the Influence Factors of Differential Settlement of High Embankment in Mountain Area Most popular papers in OJCE PDF (Size: 271KB) PP. 214-217 DOI: 10.4236/ojce.2012.24028 About OJCE News Author(s) Min Geng, Yuanming Dou Frequently Asked Questions **ABSTRACT** This paper reveals and analyses various influence factors which cause differential settlement of high Recommend to Peers embankment in mountain area using indoor consolidation test and field loading test. In this research, the actual stress characteristics of high embankment are simplified, stability compression value of stuffing with Recommend to Library loads under lateral restricted conditions can be measured, e-p curves and p-s curves are drawn, we can calculate compression modulus as computation criteria to estimate the settlement of high embankment. The Contact Us results indicate that unconsolidated flow of high embankment is the main factor to cause differential settlement of high embankment in mountain area. As the soil consolidated, compressive deformation and the strength gradually increase, the bearing capacity of the foundation is enhanced to reduce differential Downloads: 10,321 settlement of the post-construction of high embankment. 66,005 Visits: **KEYWORDS** Road Engineering; High Embankment; Differential Settlement; Consolidation Test Sponsors >> Cite this paper M. Geng and Y. Dou, "Analysis of the Influence Factors of Differential Settlement of High Embankment in Area," Open Journal of Civil Engineering, Vol. 2 No. 4, 2012, pp. 214-217. doi: 10.4236/ojce.2012.24028. References J. M. Zi, H. X. Zhou, H. Li, et al., "Finite Element Analysis of Subside on High Embankment," Journal of Hua- zhong University of Science and Technology, Vol. 21 No. 4, 2004. CCCC Second Highway Consultants Co. Ltd., "Subgrade," China Communications Press, Beijing, 1996. J. Y. Shi, Y. X. Wen, G. H. Lei, et al., "Discussion on Consolidation Test and Some Relative [3] Problems," Journal of Hohai University (Natural Sciences), Vol. 32, No. 2, 2004, pp. 213-215. X. Y. Xu, "The Research on Subside Character and Prediction Method for High Embankment," [4] Changsha University of Science and Technology, Hunan, 2005. P. C. Zheng, Y. Lou and G. X. Meng, "Study of Field Loading Test for Composite Foundation," Dam [5]