Scientific Research

2006, pp. 179-191.



Search Keywords, Title, Author, ISBN, ISSN

Home	Journals	Books	Conferences	News	About Us	Job
Home > Journal > Earth & Environmental Sciences > IJG					Open Special Issues	
Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Published Special Issues	
I JG> Vol.3 No.3, July 2012					Special Issues Guideline	
OPENGACCESS A New Shrinkage Curve Model, Applied to Moroccan Clayey Soil					IJG Subscription	
PDF (Size: 969KB) PP. 507-514 DOI: 10.4236/ijg.2012.33053					Most popular papers in IJG	
Author(s) Saad Bensallam, Lahcen Bahi, Houssine Ejjaaouani, Vladimir Shakhirev					About IJG News	
ABSTRACT On the basis of the existing relation between the soil' s water content and its structural evolution, we elaborate a new analytical model allowing the analysis of the soil' s shrinkage curve according to the limits of its hydro-structural boundaries. This model was conducted on undisturbed clayey soil at Moulel-Bergui,					Frequently Asked Questions	
					Recommend to Peers	
KEYWORDS					Recommend to Library	
Clayey Soil; Expansive Soil; Shrinkage Curve; Analytical Model					Contact Us	
Cite this paper S. Bensallam, L. Bahi, H. Ejjaaouani and V. Shakhirev, "A New Shrinkage Curve Model, Applied to Moroccan Clayey Soil," <i>International Journal of Geosciences</i> , Vol. 3 No. 3, 2012, pp. 507-514. doi: 10.4236/ijg.2012.33053.					Downloads:	165,285
					Visits:	394,356
References [1] J. J. B. Bronswijk, " Drying, Cracking and Subsidence of a Clay Soil in a Lysimeter," Soil Science, Vol. 152, No. 2, 1991, pp. 92-99. doi:10.1097/00010694-199108000-00005					Sponsors, Associates, ai	
[2] P. H. Gro Swelling S	P. H. Groenevelt and C. D. Grant, " Re-Evaluation of the Structural Properties of Some British Swelling Soils," European Journal of Soil Science, Vol. 52, No. 3, 2001, pp. 469-477.					
[3] D. J. Kim, Unripe Ma Ripening,"	3] D. J. Kim, H. Vereecken, J. Feyen, D. Boels and J. J. B. Bronswijk, " On the Characterization of the Unripe Marine Clay Soil. 1. Shrinkage Processes of an Unripe Marine Clay Soil in Relation to Physical Ripening," Soil Science, Vol. 153, No. 6, 1992, pp. 471-481.					
[4] A. R. Tar Science So	A. R. Tariq and D. S. Durnford, " Analytical Volume Change Model for Swelling Clay Soils," Soil Science Society of America Journal, Vol. 57, No. 5, 1993, pp. 1183-1187.					
[5] E. Braude. Curve Me 1999, pp.	E. Braudeau, J. M. Costantini, G. Bellier and H. Colleuille, "New Device and Method for Soil Shrinkage Curve Measurement and Characterization," Soil Science Society of America Journal, Vol. 63, No. 3, 1999, pp. 525-535.					
[6] D. McGarr Science So	D. McGarry and K. W. Malafant, " The Analysis of Volume Change in Unconfined Units of Soil," Soil Science Society of America Journal, Vol. 51, 1987, pp. 290-297.					
[7] E. Braude Using Its S	. Braudeau, J. P. Frangi and R. H. Mohtar, " Characterizing Nonrigid Aggregated Soil-Water Medium Ising Its Shrinkage Curve," Soil Science Society of America Journal, Vol. 68, 2004, pp. 359-370.					
[8] X. Peng a Science So	and R. Horn, " Modeling pociety of America Journal,	Soil Shrinkage Curve a Vol. 69, 2005, pp. 584-	across a Wide Range o 592. doi:10.2136/sssaj2	f Soil Types,″ Soil 2004.0146		
[9] W. M. Co	rnelis, J. Corluy, H. Mea	dina, J. Díaz, R. Hartm	nann, M. Van Meirvenr	ne and M. E. Ruiz,		

" Measuring and Modelling the Soil Shrinkage Characteristic Curve," Geoderma, Vol. 137, No. 1,