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Compaction Characterization and Model Prediction of Stabilized Mbo Residual Soils

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Mbo residual soils are heterogeneous due to variable weathering of the jointed rock mass. The heterogeneity of residual soils is due to the influence of relic joints, presence of boulders and variability of the soil matrix. Laboratory investigations to ascertain problems associated with Mbo residual soils at plain and modified conditions were conducted. Residual soil parameters have significant effect on the overall performance or non-performance of pavement structures. Various stabilization measures were executed to determine contact behavior and compaction systems introduced to establish structural response to imposed mechanical systems. Data derived from experiments were subjected to rigorous analysis. Multiple non-linear regressed models with correlation coefficients were developed and validity tests conducted to confirm agreement with experimental observations. The models considered that CBR depends on cement content, river sand content, maximum dry density and optimum moisture content while the UCS depends on cement content, river sand content and curing durations. The models thus formed the basis of prediction and optimization of stabilized Mbo residual soil parameters. 268 pp. Englisch.



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