

A Regression Model for Residual-State Creep Failure

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Abstract : In this study, a residual-state creep failure model was developed based on the residual-state creep test results of clayey soils. To develop the proposed model, the regression analyses were done by using the R. The model results of the failure time (t_f) and critical displacement (δ_c) were compared with experimental results and found in close agreements to each others. It is expected that the proposed regression model for residual-state creep failure will be more useful for the prediction of displacement of different clayey soils in the future.

Keywords : regression model, residual-state creep failure, displacement prediction, clayey soils

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