Prediksi Sudut Gesek Internal Tanah Berdasarkan Sudut Dilatasi Pada Uji Geser Langsung

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Abstract	Shear strength parameters of soils are cohesion (c) and internal friction angle (ÃƒÂ¯Ã‚Â¿Ã‚Â½). Direct shearÃƒÂ‚Ã‚Â test is a method to determine these parameters. Data from this test are shear stress andÃƒÂ‚Ã‚Â thickness change of soil. In practice, only the maximum shear stress will used to determine theÃƒÂ‚Ã‚Â shear strength parameter. The major objective of this research is to develope a formula forÃƒÂ‚Ã‚Â prediction internal friction angle (ÃƒÂ•Ã‚Â•) by dilatation angle (ÃƒÂŽÃ‚Â±). Result of this research is a predictionÃƒÂ‚Ã‚Â formula of internal friction angle, as :ÃƒÂ‚Ã‚Â ÃƒÂŽÃ‚Â± = arctan (ÃƒÂ‚Ã‚Âµ + tanÃƒÂ‚Ã‚Â ÃƒÂŽÃ‚Â±)/(1-ÃƒÂ‚Ã‚ÂµÃƒÂ‚Ã‚Â tanÃƒÂ‚Ã‚Â ÃƒÂŽÃ‚Â± ÃƒÂ‚Ã‚Â by ÃƒÂ‚Ã‚Âµ= 0,55. Dilatation angle (ÃƒÂŽÃ‚Â±) forÃƒÂ‚Ã‚Â this formula was determined at maximum shear stress.. Validations of ÃƒÂ•Ã‚Â• predicted by thisÃƒÂ‚Ã‚Â formula have maximum error 16,76%, average error 5,59% and standard deviation error 4,75%.ÃƒÂ‚Ã‚Â Cohesion (c) values can calculated by Mohr-Coloumb Formula.
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