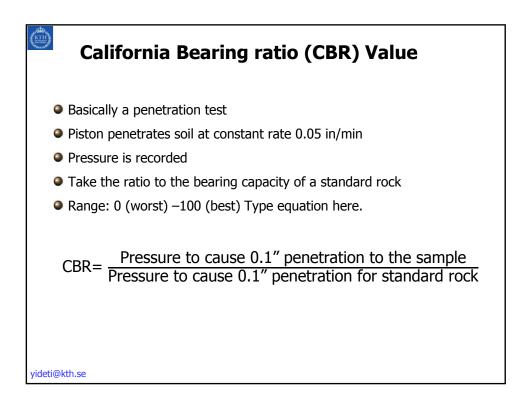
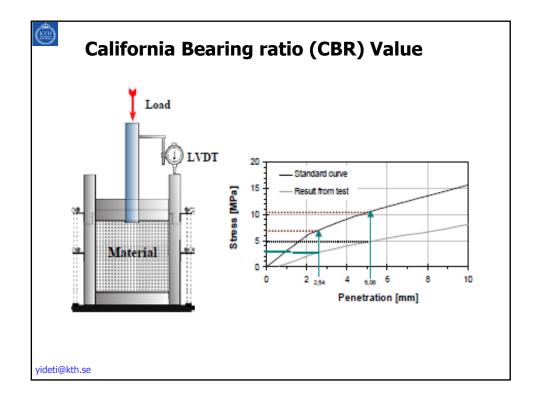


AF2903 Highway Construction and Maintenance

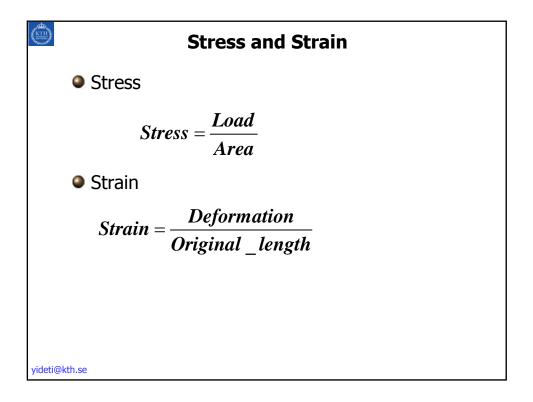
Mechanical Properties of Aggregates

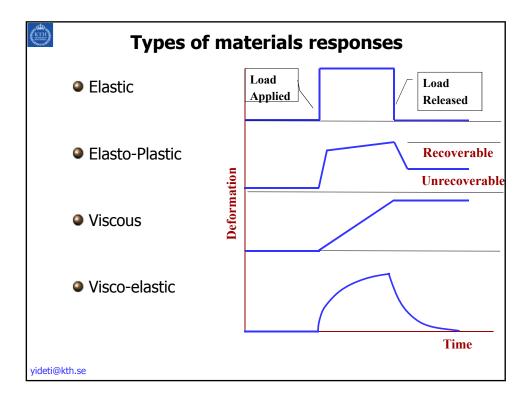
Tatek Fekadu Yideti PhD Student in Highway and Railway Engineering Department of Transportation Science

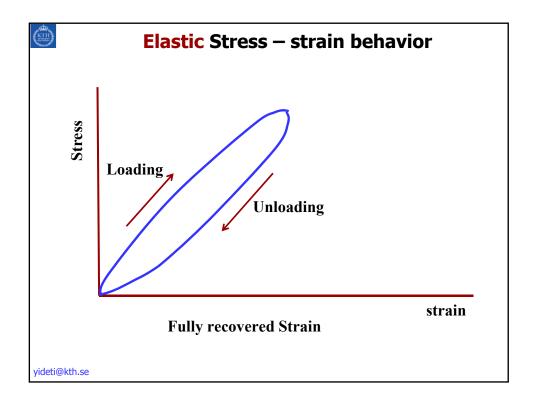


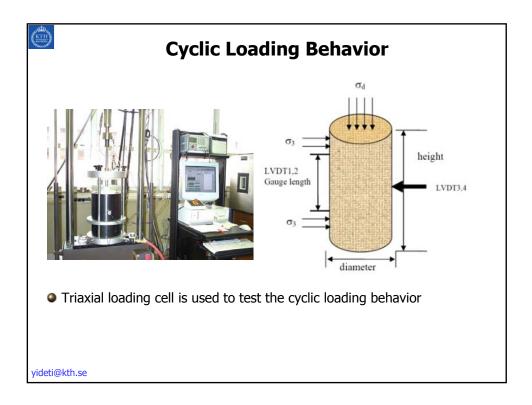


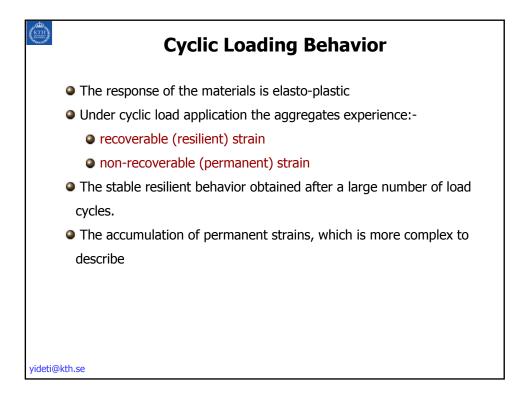
General Soil Type	USC Soil Type	CBR Range
Coorse grained soils	GW	40 - 80
	GP	30 - 60
	GM	20 - 60
	GC	20 - 40
Coarse-grained soils	SW	20 - 40
	SP	10 - 40
	SM	10 - 40
	SC	5 - 20
	ML	15 or less
Fine-grained soils	CL LL < 50%	15 or less
	OL	5 or less
	MH	10 or less
	CH LL > 50%	15 or less
	OH	5 or less

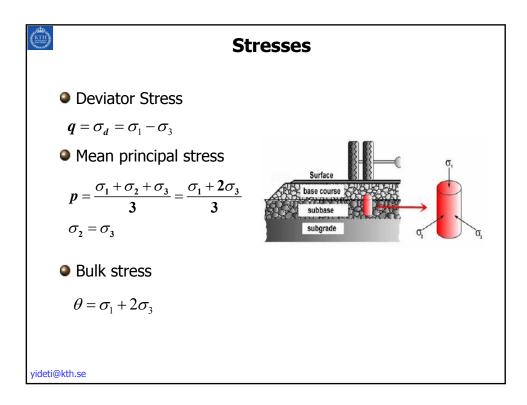


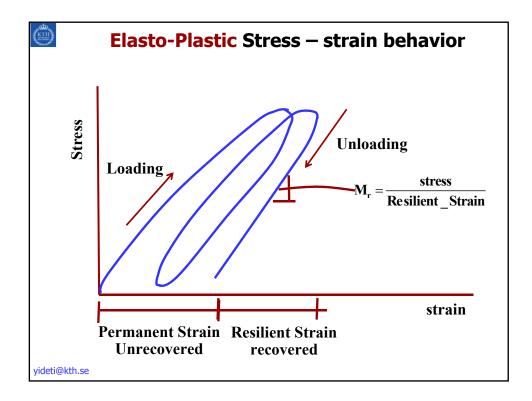


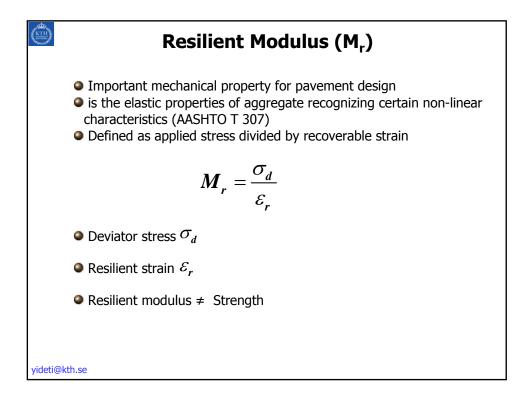


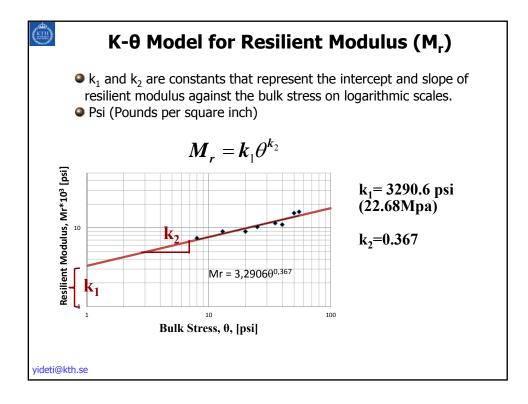












٢	 Example The Table below shows the result of resilient modulus tests on an aggregate materials. Determine the nonlinear coefficient k₁ and k₂. 					
	Confining	Deviatoric	Recoverable	Resilient	Bulk	
	Pressure	Stress	Strain	Modulus	Stress	
	(psi)	(psi)	(x 10E-3)	(x 10E3)	θ, (psi)	
	2	6	0,58	10,34	12	
	5	15	0,74	20,27	30	
	10	30	0,95	31,58	60	
	15	45	1,14	39,47	90	
	20	50	1,2	41,67	110	
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