//_ MECHANICAL OPERATIONS (MK) Totally of processing, handling, characterization and application of wide variety of particulate solids/ Bulk solids. -> Size redn (aumminution) Mandling (storage) Mixing / Agitation and we should be discussed all all Separation - Screening, filtration, cyclone separator, gravity bases fluidization. - storage of solids Daine, selos, hoppers. silo Zu = friction between solid particles and wall a h = horizontal normal stress AGV + Phy Adz = Zwudz + (GV+dGV) A We go of down.

dow = Phy - Zwu berog more and

dz h. more particles are
pushing down. 6 vo = Sucharge stress tand = Tw = angle of wall friction → 6Vo = 0 nothing is there to if piston or lid is there k = T -> lateral stress but taking const friction (particle -particle)

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	1 1	0	drew defour on chopage along
	''	0	
	Angle of spatula		Unconfined yield strength
		0	The force or stress required to deform or break a
0.303	angle between horizontal and slope of heap	0	material when it is not compared by a container (free
	dow angles, bugh flowalisty.	0	unstressed surface). Important to study provokely
	Cohegian index	0	
_	measurement of cohesive forces.	6	Inceptent flow:
	more coherive force, his flowatality	0	Particles has just started strong against each other
	townive force, us furnished	0	whole material failure sclose not occur but local failure occurs
	Uniformity = Dea /ilati	9	
	Uniformity = Dao (Identifies inje simlarly ving siere analysis)	6	consolidation:
	uniformity a framasility. Sieve size which will allow 60% of	0	
	materials to par .	9	· IXXI
	Doo = effecture particle size Sieve size which allows 10/ of	9	
	materials to pan.	6	HYDRAULIC TRASFORT OF SLURRY
	Doo = particle size at which soy of particles are fine	9	Durand equation is used to calculate pressure door
	and 40% are coaser	6	16 ce 11
	Top 40, we obasse	6 11 2	(-orn) = 1 + 150(1-5) (08 (83 - 86)) 1.5
		0	(-01,1) Very (5) (6)
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