

Solution Manual for Principles of Geotechnical Engineering SI version 8th Edition by Das

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Chapter 2

$$2.1 \quad C_u = \frac{D_{60}}{D_{10}} = \frac{0.25}{0.075} = 3.33 > 4, C_c = \frac{D_{30}^2}{D_{60} D_{10}} = \frac{0.25^2}{(0.075)(0.425)} = 0.978 < 1.4$$

$$2.2 \quad C_u = \frac{D_{60}}{D_{10}} = \frac{0.83}{0.22} = 3.8 > 4, C_c = \frac{D_{30}^2}{D_{60} D_{10}} = \frac{0.43^2}{(0.83)(0.27)} = 0.768 < 1.4$$

2.3 a

Sieve		Mass of soil retained	Percent retained	Percent
no.	mm	gms		
4	4.75	28	4.54	95.46
10	0.425	42	6.63	88.83
20	0.85	68	10.78	80.02
40	0.425	128	20.32	69.70
60	0.25	223	35.02	34.98
100	0.15	86	13.54	21.44
200	0.075	40	6.30	15.14
Pass	0.075	24	3.84	0.00
		241.3 g		

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produces a 47.3% yield how many grams of CO would be produced step one figure out how many moles of the limiting reagent you have 0.216232 grams/mole 21.3 grams / 0.66 moles = 32.27 g

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