

An Introduction to Geotechnical Engineering Holtz Kovacs 2nd Edition Solutions Manual

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CHAPTER 4

CLAY MINERALS, SOIL AND ROCK STRUCTURES, AND ROCK CLASSIFICATION

4-1. Calculate the specific surface of a cube (a) 10 mm, (b) 1 mm, (c) and (d) 1 nm on a side. Calculate the specific surface in terms of both area and m^2/kg . Assume for the latter case that $\rho_s = 2.65 \text{ Mg/m}^3$.

SOLUTION:

Solve using Eq. 4.2: specific surface = $\frac{\text{surface area}}{\text{unit volume}}$

$$(a) \text{ specific surface} = \frac{6(100 \text{ mm}^2)}{10 \text{ mm}^3} = 60 \frac{\text{mm}^2}{\text{mm}^3}$$

$$\text{and specific surface} = \frac{(60 \frac{\text{mm}^2}{\text{mm}^3}) \times 1000 \frac{\text{mm}^3}{\text{m}^3}}{2.65 \frac{\text{Mg}}{\text{m}^3}} = 22,641 \frac{\text{m}^2}{\text{Mg}} = 22.6 \frac{\text{m}^2}{\text{kg}}$$

$$(b) \text{ specific surface} = \frac{6(1 \text{ mm}^2)}{1 \text{ mm}^3} = 6 \frac{\text{mm}^2}{\text{mm}^3}$$

$$\text{and specific surface} = \frac{(6 \frac{\text{mm}^2}{\text{mm}^3}) \times 1000 \frac{\text{mm}^3}{\text{m}^3}}{2.65 \frac{\text{Mg}}{\text{m}^3}} = 2264 \frac{\text{m}^2}{\text{Mg}} = 2.26 \frac{\text{m}^2}{\text{kg}}$$

$$(c) \text{ specific surface} = \frac{6(1 \mu\text{m}^2)}{1 \mu\text{m}^3} = 6 \frac{\mu\text{m}^2}{\mu\text{m}^3} = 6000 \frac{\text{mm}^2}{\text{mm}^3}$$

$$\text{and specific surface} = \frac{(6000 \frac{\text{mm}^2}{\text{mm}^3}) \times 1000 \frac{\text{mm}^3}{\text{m}^3}}{2.65 \frac{\text{Mg}}{\text{m}^3}} = 2,264,151 \frac{\text{m}^2}{\text{Mg}} = 2264 \frac{\text{m}^2}{\text{kg}}$$

$$(d) \text{ specific surface} = \frac{6(1 \text{ nm}^2)}{1 \text{ nm}^3} = 6 \frac{\text{nm}^2}{\text{nm}^3} = 6,000,000 \frac{\text{mm}^2}{\text{mm}^3}$$

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