

Es 67 pag. 25: On a circular lake with a radius of 200 m the ice is 11.0 cm thick. Find the mass of the ice (ice density: 917 kg/m^3).

$$r(\text{raggio}) = 200 \text{ m}$$

$$m(\text{massa}) = ?$$

$$h(\text{spessore del ghiaccio}) = 11,0 \text{ cm} \rightarrow 0,11 \text{ m}$$

$$d(\text{densità del ghiaccio}) = 917 \text{ kg/m}^3$$

$$V(\text{volume}) = (r^2 \pi) \cdot h = (200^2 \cdot 3,14) \cdot 0,11 = 13816 \text{ m}^3$$

$$m = d \cdot V = 917 \cdot 13816 = 12669272 \text{ kg} = 1,27 \cdot 10^7 \text{ kg}$$

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