

CHAPTER ONE

THE NATURE OF FLUIDS AND THE STUDY OF FLUID MECHANICS

Conversion factors

1.1 $1250 \text{ mm}(1 \text{ m}/10^3 \text{ mm}) = 1.25 \text{ m}$

1.2 $1600 \text{ mm}^2[1 \text{ m}^2/(10^3 \text{ mm})^2] = 1.6 \times 10^{-3} \text{ m}^2$

1.3 $3.65 \times 10^5 \text{ mm}^3[1 \text{ m}^3/(10^3 \text{ mm})^3] = 3.65 \times 10^{-4} \text{ m}^3$

1.4 $2.05 \text{ m}^2[(10^3 \text{ mm})^2/\text{m}^2] = 2.05 \times 10^6 \text{ mm}^2$

1.5 $0.391 \text{ m}^3[(10^3 \text{ mm})^3/\text{m}^3] = 391 \times 10^6 \text{ mm}^3$

1.6 $55.0 \text{ gal}(0.00379 \text{ m}^3/\text{gal}) = 0.208 \text{ m}^3$

1.7 $\frac{80 \text{ km}}{\text{h}} \times \frac{10^3 \text{ m}}{\text{km}} \times \frac{1 \text{ h}}{3600 \text{ s}} = 22.2 \text{ m/s}$

1.8 $25.3 \text{ ft}(0.3048 \text{ m/ft}) = 7.71 \text{ m}$

1.9 $1.86 \text{ mi}(1.609 \text{ km/mi}) \times (10^3 \text{ m/km}) = 2993 \text{ m}$

1.10 $8.65 \text{ in}(25.4 \text{ mm/in}) = 220 \text{ mm}$

1.11 $2580 \text{ ft}(0.3048 \text{ m/ft}) = 786 \text{ m}$

1.12 $480 \text{ ft}^3(0.0283 \text{ m}^3/\text{ft}^3) = 13.6 \text{ m}^3$

1.13 $7390 \text{ cm}^3[1 \text{ m}^3/(100 \text{ cm})^3] = 7.39 \times 10^{-3} \text{ m}^3$

1.14 $6.35 \text{ L}(1 \text{ m}^3/1000 \text{ L}) = 6.35 \times 10^{-3} \text{ m}^3$

1.15 $6.0 \text{ ft/s}(0.3048 \text{ m/ft}) = 1.83 \text{ m/s}$

1.16 $\frac{2500 \text{ ft}^3}{\text{min}} \times \frac{0.0283 \text{ m}^3}{\text{ft}^3} \times \frac{1 \text{ min}}{60 \text{ s}} = 1.18 \text{ m}^3/\text{s}$

Consistent units in an equation

1.17 $v = \frac{s}{t} = \frac{0.50 \text{ km}}{10.6 \text{ s}} \times \frac{10^3 \text{ m}}{\text{km}} = 47.2 \text{ m/s}$

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