Unit of Derive Quantities

Exercises – Conversion of the Unit of Speed, Density and Pressure

Complete the following unit conversion of speed.

$90\ kmh^{-1}$ = _____ ms^{-1}

$110\ kmh^{-1}$ = _____ ms^{-1}

$1.3\ ms^{-1}$ = _____ kmh^{-1}

$8.12\ ms^{-1}$ = _____ kmh^{-1}

Complete the following unit conversion of density and pressure.

$760\ kgm^{-3}$ = _____ gcm^{-3}

$12000\ kgm^{-3}$ = _____ gcm^{-3}

$5.1\ gcm^{-3}$ = _____ kgm^{-3}

$3600\ Nm^{-2}$ = _____ Ncm^{-2}

$12\times10^{6}\ Nm^{-2}$ = _____ Ncm^{-2}

$1.5\times10^{3}\ Nm^{-2}$ = _____ Ncm^{-2}

$3.16\times10^{-5}\ Ncm^{-2}$ = _____ Nm^{-2}

$7.1\times10^{-3}\ Ncm^{-2}$ = _____ Nm^{-2}