ภาคผนวกที่ 1 ปริมาณทางฟิสิกส์

Quantity and symbol	Formula	Unit	Symbol of unit	Dimension of quantity
	Basic Unit			
Length l	-	metre	m	l
Mass	-	kilogramme	kg	m
Time t	-	sicond	s	t
	Derived units			
Area A	$A = l^2$	square metre	m^2	l^2
Volume V	$V = l^3$	cubic metre	m^3	l^3
Frequency v	$\nu = \frac{1}{T}$	hertz	Hz	l-1
Angular velocity	$w = \frac{\Delta\Psi}{\Delta t}$	radian per second	rad/s	l-1
Angular acceleration	$\alpha = \frac{\Delta w}{\Delta t}$	radian per second per second	rad/s^2	l-2
Linear velocity v	$v = \frac{\Delta l}{\Delta t}$	metre per second	m/s	lt-1
Linear acceleration a	$a = \frac{\Delta v}{\Delta t}$	metre per second per second	m/s^2	lt-2

Quantity and symbol	Formula	Unit	Symbol of Unit	Dimension of quantity
Density ρ	$\rho = \frac{m}{v}$	kilogramme per cubic metre	kg/m^3	$l^{-3} m$
Fore F, weight G	F = ma	newton	N	lmt^{-2}
Specific weight	$= \frac{G}{V}$	newton per cubic metre	N/m^3	$l^{-2} mt^{-2}$
Pressure p	$p = \frac{F}{A}$	newton per square metre	N/m^2	$l^{-1} mt^{-1}$
Momentum $\bar{p}$	$\bar{p}$ = mv =FΔt	kilogrammemetre per	kg. m/s	lmt^{-1}
Moment of Inertia I	$I = ml^2$	kilogrammespuare metre	$kg.m^2$	$l^2 m$
Work W and energy E	w = Fl	joule	J	$l^2 mt^{-2}$
Power P	$P = \frac{\Delta w}{\Delta t}$	watt	W	$l^2 mt^{-3}$
Dynamic viscosity η	$\eta = \frac{F \Delta l}{A \Delta V}$	newton-second per square metre	$N. s/m^2$	$l^{-1} mt^{-1}$
Kinemativ v viscosity	$v = \frac{n}{\delta}$	square metre per second	m^2 / s	$l^2 t^{-1}$