

Glossary of mechanics notation

\mathbf{e}	$\mathbf{e}_r, \mathbf{e}_\theta$	a unit vector
$\mathbf{i}, \mathbf{j}, \mathbf{k}$		cartesian unit vectors
\mathbf{F}	\mathbf{P}	a force
\mathbf{N}		normal or perpendicular force
\mathbf{R}		reaction or resultant force
\mathbf{r}	\mathbf{x}	displacement (vector)
r	x	magnitude of displacement (scalar) or radius
$\dot{\mathbf{r}}$	$\mathbf{v}, \dot{\mathbf{x}}$	velocity (vector)
\dot{r}	v, \dot{x}	speed, magnitude of velocity (scalar)
$\ddot{\mathbf{r}}$	$\mathbf{a}, \dot{\mathbf{v}}, \ddot{\mathbf{x}}$	acceleration (vector)
\ddot{r}	a, \dot{v}, \ddot{x}	magnitude of acceleration (scalar)
\mathbf{p}		linear momentum (vector)
W		work (scalar)
P		power (scalar)
U		potential energy (scalar)