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PLTW Engineering Abbreviations and Symbols

a	acceleration
A	ampere
A	area
a.m.	ante meridiem
AC	alternating current
Btu	British thermal unit
Btuh	British thermal unit / hour
c	calorie
C	circumference
°C	degree Celsius
cc	cubic centimeters
cm	centimeter
cps	cycles / second
Δ	change
δ	deformation
d	diameter
d	displacement
D	distance
dB	decibel
DC	direct current
deg/s	degrees / second
ε	strain or unit elongation
E	effort
E	electromotive force
E	modulus of elasticity
F	force
°F	degree Fahrenheit
ft	feet
ft-lb	foot-pounds
g	gram
g	gravity
ga	gauge
gal	*gallons*
gpm	gallons / minute
GR	gear ratio
H	height
hp	horsepower
hr	hour
Hz	hertz
I	current
I	moment of inertia
in.	inch (with a period)
in.-lb	Inch pounds
IU	international unit
J	joule
J	pinned truss joints
k	thermal conductivity
k	Kips
K	kelvin
kg	kilogram
km	kilometer
kph	kilometers / hour
kW	kilowatt
L	length
L	liter
lb	pound or pounds
lbf	pound force
lb-ft	pound feet
lpm	liters / minute
m	mass
m	meter
M	Moment
M	truss member(s)
μ	population mean
μm	micrometer
MA	mechanical advantage
mA	milliampere
mg	milligram
min	minute
mL	milliliter
mm	millimeter
mph	miles / hour
ms	millisecond
MΩ	mega ohm
N	Newton
n	number
N-m	Newton-meters
ns	nanosecond
oz	ounce
p	pitch
p	momentum
P	power
p	pressure
p.m.	post meridiem

π	pi (3.1416)
psi	pounds per inches squared
Q	heat flow
Q	fluid flow rate
r	radius
R	resistance
R	rate
R	reaction force
R	R-value
°R	degree Rankine
rad	radian
rpm	revolutions / minute
ρ	density
s	second
s	sample standard deviation
σ	normal stress
σ	population standard deviation
$\sum$	sum
t	thickness
t	time
τ	torque
τ	shear stress
T	temperature
U	u-value
v	fluid flow velocity
v	velocity
V	Volt
V	volume
w	weight
W	watt
W	work
ω	angular velocity
Ω	Ohm
x	horizontal displacement
$\bar{x}$	sample mean or average
y	vertical displacement
Z	plastic section modulus