

of other origin. In the interests of economy and the reduction of waste the sub-committee recommends the elimination of the period except where such an omission results in an English word. Exceptions to this practice will be found in a few mathematical and chemical terms, such as sin, tan, log, Be, etc.

Do not space the letters of such abbreviations as A.S.H.V.E. (not A. S. H. V. E.).

The use in text of exponents for the abbreviations of square and cube and of the negative exponents for terms involving per is not recommended. The superior figures are usually not available on the keyboards of typesetting and linotype machines and composition is therefore delayed. There is also the likelihood of confusion with footnote reference numbers. These shorter forms are permissible in tables and are sometimes difficult to avoid in text.

In this initial list of abbreviations for engineering and scientific terms only those most commonly used have been included.

Absolute	abs	Continental horsepower	cont hp
Air horsepower	air hp	Cord	cd
Alternating-current (adjective)	a-c	Cosecant	csc
American wire gage (Brown and Sharpe)	Awg	Cosine	cos
Ampere	a or A*	Cost, insurance and freight	cif
Ampere-hour	ah or Ah*	Cotangent	ctn
Angstrom unit	A	Coulomb	c or C*
Antilogarithm	antilog	Counter electromotive force	counter emf
Armature	arm.	Cubic	cu
Atomic weight	at. wt	Cubic centimeter	cu cm, cc (liquid, meaning milliliter)
Atmosphere	atm	Cubic foot	cu ft
Average	avg	Cubic feet per second	cfs
Avoidupois	advp	Cubic inch	cu in.
Barometer	bar.	Cubic meter	cu m or m ³
Barrel	bbl	Cubic micron	cu μ (cu μ or μ^3)
Baumé	Bé	Cubic millimeter	cu mm or mm ³
Birmingham wire gage	Bwg	Cubic yard	cu yd
Board feet (feet board measure)	fbm	Current density	spell out
Boiler horsepower	boiler hp	Cycles per second	~
Boiler pressure	bp	Cylinder	cyl
Boiling point	bp	Day	spell out
Brake horsepower	bhp	Degree	deg
Brake horsepower-hour	bhp-h	Degree Centigrade	C
Brinell hardness number	Bhn	Degree Fahrenheit	F
British thermal unit	Btu	Degree Kelvin	K
Bushel	bu	Degree Réaumur	R
Calorie	cal	Diameter	diam.
Candle	c	Direct-current (as adjective)	d-c
Candle-hour	c-h	Dollar	\$
Candlepower	cp	Dozen	doz
Center to center	c to c	Dram	dr
Centigram	cg	Electric	elec
Centiliter	cl	Electric horsepower	ehp
Centimeter	cm	Electromotive force	emf
Centimeter-gram-second	cgs	Elevation	el
Cent	c or ¢	Engine	eng
Chain	ch	Engineer	enr
Chemical	chem	Engineering	engg
Chemically pure	cp	External	ext
Circular	cir	Feet board measure (board feet)	fbm
Circular mils	cir mils	Feet per minute	fpm
Coefficient	coef	Feet per second	fps
Cologarithm	colog	Fluid	f
Concentrate	conc	Foot	ft
Conductivity	cond	Foot-candle	ft-c
Constant	const		

*Abbreviation recommended by the International Electrotechnical Commission.

Foot-Lambert	ft-L	Mean spherical candlepower	mscp
Foot-pound	ft-lb	Megawatt	spell out or MW*
Foot-pound-second	fps	Megohm	spell out or M Ω *
Free on board	f.o.b.	Melting point	mp
Freezing point	fp	Meter	m
Frequency	freq	Meter-kilogram	m-kg
Fusion point	fnp	Mho	spell out
Gallon	gal	Microampere	μ a or μ A* (mu a)
Gallons per minute	gpm	Microfarad	μ f (mu f) or μ F*
Gallons per second	gps	Micromicron	$\mu\mu$ (mu mu)
Generator	gen	Micron	μ (mu)
Grain	spell out	Microwatt	spell out or μ w (mu w) or μ W*
Gram	spell out	Mile	spell out
Gram-calorie	g-cal	Miles per hour	mph
Greatest common divisor	gcd	Miles per hour per second	mphps
Henry	h or H*	Milliampere	ma or mA*
High-pressure (adjective)	h-p	Milliangstrom	m A
Horsepower	hp	Millifarad	mf or m F
Horsepower-hour	hp-h	Milligram	mg
Hundredweight (112 lb)	cwt	Millihenry	mh or m H*
Hyperbolic sine	sinh	Millilambert	mL
Hyperbolic cosine	cosh	Milliliter	ml
Hyperbolic tangent	tanh	Millimeter	mm
Inch	in.	Millimicron	$\mu\mu$ (mmu)
Inch-pound	in-lb	Million	spell out
Inches per second	ips	Million gallons per day	mgd
Indicated horsepower	ihp	Millivolt	mv or m V*
Indicated horsepower-hour	ihp-h	Minimum	min
Intermediate-pressure (adjective)	i-p	Minute	min
Internal	int	Molecular weight	mol wt
Joule	j or J*	Month	spell out
Kilocycle	kc	Motor-generator	m-g
Kilogram	kg	National Electric Code	NEC
Kilogram-meter	kg-m	Ohm	spell out or Ω *
Kilograms per cubic meter	kg per cu m or kg/m ³	Ohm-centimeter	ohm-cm
Kilograms per second	kgps	Ounce	oz
Kiloliter	kl	Ounce-foot	oz-ft
Kilometer	km	Ounce-inch	oz-in.
Kilometers per second	kmps	Parts per million	ppm
Kilovolt	kv or kV*	Peck	pk
Kilovolt-ampere	kva or kVA*	Pennyweight	dwt
Kilowatt	kw or kW*	Pint	pt
Kilowatthour	kwh or kWh*	Potential	pot.
Latitude	lat	Potential difference	pd
Least common multiple	lcm	Pound	lb
Lineal foot	lin ft	Pound-foot	lb-ft
Link	l	Pound-inch	lb-in.
Liter	l	Pounds per brake horsepower hour	lb per bhp-h
Liquid	liq	Pounds per square foot	lb per sq ft
Logarithm	log	Pounds per square inch	lb per sq in.
Logarithm (natural)	loge or ln	Pound Sterling	£
Longitude	long.	Power factor	p f
Low-pressure (adjective)	l-p	Primary	pri
Magnetomotive force	mmf	Quart	qt
Mass	spell out	Radian	spell out
Mathematics (ical)	math	Reactive kilovolt-ampere	rkva
Maximum	max	Reactive volt-ampere	rva
Mean effective pressure	mep	Revolutions per minute	rpm
Mean horizontal candlepower	mhcp	Revolutions per second	rps

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