SI Unit rules and style conventions				
Object & quantity	An object and any quantity describing the object are distinguished. (Note the difference between "surface" "body" and "mass," "resistor" and "resistance," "coil" and "inductance.") PROPER IMPROPER			
	A body of mass 5 g	A mass of 5 g		
Standard	Standardized quantity symbols are used. Similarly, standardized quantity symbols are used.	ardized mathematical signs and symbols are used.		
symbols	PROPER	IMPROPER		
	$M_{\rm r}$ for relative molecular mass	tg x for tangent of x		
	$M({\rm H}_2{\rm O})$ for molar mass of water	dx/dt for first derivation		
	$\tan x, dx/dt$	words, acronyms, or ad hoc groups of letters		
	$\log_a x$ (meaning log to the base <i>a</i> of <i>x</i>)	words, deronyms, or de noe groups of feders		
	$lb x (log_2 x), ln x (log_e x), lg x (log_{10} x)$			
N 1.0		ng Arabia numerals and symbols for units. Equivalent values		
Numerals &	Values of quantities are expressed in acceptable units using Arabic numerals and symbols for units. Equivalent values in other units are given in parentheses following values in acceptable units only when deemed necessary for the			
unit symbols	intended audience.	in acceptable units only when deemed necessary for the		
	PROPER	IMPROPER		
	m = 5 kg	m = five kilograms, $m =$ five kg		
	the current was 15 A	the current was 15 amperes		
	d = 381 mm (d = 15 in)	d = 15 in ($d = 381$ mm), $d = 15$ in		
Prefix	The prefixes used to denote decimal fractions and multiples of SI units and derived SI units. SI prefixes strictly represent powers of 10, they should not be used to represent powers of 2. The prefix always takes precedence over any			
	exponentiation. The prefix attaches directly to the name of a unit, and a prefix symbol attaches directly to the symbol			
	for a unit. Prefix symbols cannot stand alone.			
	PROPER	IMPROPER		
	mg	μkg		
	μs, ms	μ s, m·s, m×s		
	m·s, m s	μ (meaning 10 ⁻⁶ m)		
	cm^{3} is $(10^{-2} m)^{3}$ respectively $10^{-6} m^{3}$	cm^3 meaning $10^{-2} m^3$		
	megaherc, MHz (10^6 Hz)	megaHz, µFarad		
	1 kbit = 1000 bit	1 kbit = 1024 bit		
Style		ng Arabic numerals and the symbols for the units. There is a		
convention	space between the numerical value and unit symbol, even when the value is used in an adjectival sense, except in the			
	case of superscript units for plane angle. Unit symbols ar	e not followed by a period unless at the end of a sentence.		
	PROPER	IMPROPER		
	a = 5 m or a/m = 5	25kg sphere, 25-km road		
	$T = 25 \ ^{\circ}\mathrm{C}$	$T = 25^{\circ}$ C, $T = 25^{\circ}$ C		
	The ordinate of a graph is labeled $T/(10^3 \text{ K})$ Ordinate			
	The ordinate of a graph is labeled $T/(10^3 \text{ K})$. Ordinate value of 3.2 correspond with $T = 3.2 \cdot 10^3 \text{ K} = 3200 \text{ K}$	an angle of 2 ° 3 ′ 4 ″		
	value of 3.2 correspond with $T = 3.2 \cdot 10^3 \text{ K} = 3200 \text{ K}$	an angle of $2 \circ 3 ' 4 ''$ a (u metrima) = 5		
	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended)	an angle of 2 ° 3 ′ 4 ″		
	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long."	an angle of 2 ° 3 ′ 4 ″ a (u metrima) = 5 "The bar is 75 cm. long."		
Typeface	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long." Variables and quantity symbols are in italic type. Unit sy	an angle of 2 ° 3 ′ 4 ″ <i>a</i> (u metrima) = 5 "The bar is 75 cm. long." mbols are in roman type. Numbers should generally be written		
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Typeface	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long." Variables and quantity symbols are in italic type. Unit sy in roman type. These rules apply irrespective of the typef PROPER "Maximum weight is 250 kg!"	an angle of 2 ° 3 ′ 4 ″ <i>a</i> (u metrima) = 5 "The bar is 75 cm. long." mbols are in roman type. Numbers should generally be written face used in the surrounding text. IMPROPER "Maximum weight is 250 kg!"		
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Typeface	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long." Variables and quantity symbols are in italic type. Unit sy in roman type. These rules apply irrespective of the typef PROPER "Maximum weight is 250 kg!"	an angle of 2 ° 3 ′ 4 ″ <i>a</i> (u metrima) = 5 "The bar is 75 cm. long." mbols are in roman type. Numbers should generally be written face used in the surrounding text. IMPROPER "Maximum weight is 250 kg!"		
Typeface	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long." Variables and quantity symbols are in italic type. Unit sy in roman type. These rules apply irrespective of the typef PROPER "Maximum weight is 250 kg!" HOUSE FOR SALE: TOTAL AREA 100 m ²	an angle of 2 ° 3 ′ 4 ″ <i>a</i> (u metrima) = 5 "The bar is 75 cm. long." mbols are in roman type. Numbers should generally be writter face used in the surrounding text. IMPROPER "Maximum weight is 250 kg!" HOUSE FOR SALE: TOTAL AREA 100 M ²		
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Subscripts and superscripts Mixing symbols	value of 3.2 correspond with $T = 3.2 \cdot 10^3$ K = 3200 K $\alpha = 2^{\circ}3'4'' = 2,07^{\circ}$ (decimal form is recommended) "The length of the bar is 75 cm." or "It is 75 cm long." Variables and quantity symbols are in italic type. Unit sy in roman type. These rules apply irrespective of the typef PROPER "Maximum weight is 250 kg!" HOUSE FOR SALE: TOTAL AREA 100 m ² e elementary charge f = 50 Hz Symbols used as subscripts and superscripts are italic if t descriptive. PROPER c_p , specific heat capacity at constant pressure m_p , mass of the proton N_A Avogadro constant, A Avogadro Unit symbols and unit names are not mixed and mathema not mixed with unit symbols or names. PROPER	an angle of 2 ° 3 ′ 4 ″ <i>a</i> (u metrima) = 5 "The bar is 75 cm. long." mbols are in roman type. Numbers should generally be writter face used in the surrounding text. IMPROPER "Maximum weight is 250 kg!" HOUSE FOR SALE: TOTAL AREA 100 M ² e elementary charge f = 50 Hz, $f = 50 Hzhey represent quantities or variables, but symbols are roman ifIMPROPERc_{p}, specific heat capacity at constant pressurem_p, mass of the protonN_A Avogadro constantatical operations are not applied to unit names. Information isIMPROPER$		
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Abbreviations	Abbreviations such as sec, cc, or mps are avoided and only standard unit symbols, prefix symbols, unit names, and		
	prefix names are used. The combinations of letters "ppm," "ppb," and "ppt," and the terms part per million, part per		
	billion, and the like, are not used to express the values of quantities.		
	PROPER	IMPROPER	
	s or second; cm3 or cubic centimeter; m/s or meter per	sec; cc; mps	
	second $2.0 \mu\text{L/L}; 2.0 \times 10^{-6} V;$	ppm, part per million ppb, part per billion (billion is 10^9 in America but 10^{12} in	
	$4.3 \text{ nm/m}; 4.3 \times 10^{-9} l;$	Europe)	
	where V and l are the quantity symbols for volume and	Europe)	
	length.		
Unit	Unit symbols (or names) are not modified by the addition of	f subscripts or other information. Unit symbols are	
modifications	unaltered in the plural.		
incurrent	PROPER	IMPROPER	
	$P_{\rm max} = 150 \ {\rm W}$	$P = 150 \mathrm{W}_{\mathrm{max}}$	
	a mass fraction of 10 %	10 % (<i>m</i> / <i>m</i>) or 10 % (by weight)	
	the water content is 20 mL/kg	20 mL H ₂ O/kg or 20 mL water/kg	
	l = 75 cm	l = 75 cms	
Multiplication	Symbols for units formed from other units by multiplication are indicated by means of either a halfhigh (that is,		
	centered) dot or a space. (This character, accessed in MS Word via CTRL+SHIFT+SPACE.) The space may be omitted		
	if it does not cause confusion.		
	PROPER	IMPROPER	
	The speed of sound is $344 \text{ m} \cdot \text{s}^{-1}$ (meter per second) The half-life of ¹¹³ Cs is 21 ms ⁻¹ (reciprocal millisecond)	The speed of sound is 344 ms^{-1} (reciprocal millisecond) The half-life of ¹¹³ Cs is 21 m·s ⁻¹ (meter per second)	
	$m \cdot s, m \cdot s$	ms, m×s	
	N·m, N m or Nm	ms, m×s	
Division	Symbols for units formed from other units by division are in	ndicated by means of a solidus (oblique stroke, /), a	
DIVISION	horizontal line, or negative exponents. To avoid ambiguity, the solidus must not be repeated on the same line unless		
	parentheses are used. Negative exponents should be used in		
	PROPER	IMPROPER	
	m .	$m \div s, m/s/s,$	
	$\frac{\mathrm{III}}{\mathrm{S}}$, m/s, m·s ⁻²	m·kg/s ³ /A	
	$\frac{S}{m \text{ kg}/(s^3 \text{ A}), \text{ m kg } s^{-3} \text{ A}^{-1}}$		
		ongs and which mathematical operation applies to the value	
Mathematical	al It must be clear to which unit symbol a numerical value belongs and which mathematical operation applies of a quantity.		
notation	PROPER	IMPROPER	
	$35 \text{ cm} \times 48 \text{ cm}$	35×48 cm	
	123 g do 200 g or (123 do 200) g	123g - 200 g or 123 do 200 g	
	$70\% \pm 5\%$ or $(70\pm 5)\%$	70 ± 5 %	
	$240 \times (1 \pm 10 \%) \text{ V}$	240 V \pm 10 % (one cannot add 240 V and 10 %)	
Digit spacing	The digits of numerical values having more than four digits on either side of the decimal marker are separated into		
8 1 8	groups of three using a thin, fixed space counting from both the left and right of the decimal marker. Commas are not		
	used to separate digits into groups of three.		
	PROPER	IMPROPER	
	15 739.012 53	15739.01253 or 15,739.012 53 or 15.739,012 53	
Percent	The symbol % represents simply a number 0.01. When it is used, a space is left between the symbol % and the number		
	by which it is multiplied.		
	$\frac{\mathbf{PROPER}}{1-1} = \frac{1}{2} \left(\frac{1}{2} + 0.2 \right) \left(\frac{1}{2} \right)$	IMPROPER The length <i>L</i> exceeds the length <i>L</i> by 0.2.0(
	$l_1 = l_2(1 + 0.2 \%)$ "The mass fraction is 0.67" or "The mass fraction is 67 %"	The length l_1 exceeds the length l_2 by 0.2 %	
	The mass fraction is 0.07 of The mass fraction is 67 %	"Percentage by mass is 67 %" or $x_B = 0.25$ percent The fraction is 67 % (m/m)	
	The obsolete terms normality, molarity, and molal and their		
Obsolete Terms	PROPER	IMPROPER	
	amount-of-substance concentration of B (more commonly	normality and the symbol N	
	called concentration of B), and its symbol $c_{\rm B}$ or $c({\rm B})$ and SI		
	unit mol/m ³ (or a related acceptable unit, mol/dm ³ , mol/L)	molal and the symbol m	
	molality of solute B, and its symbol $b_{\rm B}$ or $m_{\rm B}$ and SI unit		
	mol/kg (or a related unit of the SI)		
Weight vs.	When the word "weight" is used, the intended meaning mus	t be clear. (In science and technology, weight is a force, for	
mass	which the SI unit is the newton; in commerce and everyday		
	unit is the kilogram.)		

This document gives the rules and style conventions for the use of the International System of Units designed to help authors review the conformity of their manuscripts with proper SI usage and the basic principles concerning quantities and units. For more information on conventions used in technical writing, see the informative SI Unit rules and style conventions by the NIST as well as the BIPM's SI brochure.

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- 1. "The International System of Units (SI)." Bureau International des Poids et Mesures. 30 Nov 2010. <<u>http://www.bipm.fr/en/si/</u>>.
- 2. "The International System of Units from NIST." Oct 2000. National Institute of Standards and Technology. 30 Nov 2010. <<u>http://physics.nist.gov/cuu/</u>>.