

Practical Guide to the International System of Units (SI)

Table 1 Prefixes

Symbol	Prefix	Factor
Y	yotta	10^{24}
Z	zetta	10^{21}
E	exa	10^{18}
P	peta	10^{15}
T	tera	10^{12}
G	giga	10^9
M	mega	10^6
k	kilo	10^3
h	hecto	10^2
da	deka	10^1
		$10^0 = 1$
d	deci	10^{-1}
c	centi	10^{-2}
m	milli	10^{-3}
μ	micro	10^{-6}
n	nano	10^{-9}
p	pico	10^{-12}
f	femto	10^{-15}
a	atto	10^{-18}
z	zepto	10^{-21}
y	yocto	10^{-24}

- The four shaded prefixes (hecto, deka, deci, and centi) are irregular in that they are not powers of 1000. They are generally limited to cm, m², and m³. See sections 4, 5, 7, 8.

Powers of two—the binary numbers used in computers—have their own corresponding system of prefixes, modeled on SI although they're not SI:

Ei	exbi	$= 2^{60} = 1.15 \text{ E}$
Pi	pebi	$= 2^{50} = 1.13 \text{ P}$
Ti	tebi	$= 2^{40} = 1.09 \text{ T}$
Gi	gibi	$= 2^{30} = 1.07 \text{ G}$
Mi	mebi	$= 2^{20} = 1.05 \text{ M}$
Ki	kibi	$= 2^{10} = 1.02 \text{ k}$

Table 2 SI Units

Symbol	Unit Name	Quantity (symbol)	Definition
General Purpose			
m	meter	length (l)	BASE UNIT
kg	kilogram	mass (m)	BASE UNIT
s	second	time (t)	BASE UNIT
K	kelvin	temperature (T)	BASE UNIT
m ²	square meter	area (A)	m ²
m ³	cubic meter	volume (V)	m ³
N	newton	force (F)	kg·m/s ²
J	joule	energy (E)	N·m
W	watt	power (P)	J/s
Pa	pascal	pressure (p)	N/m ²
Hz	hertz	frequency	1/s
Electromagnetic			
C	coulomb	charge (Q)	A·s = $6.24 \times 10^{18} \text{ e}$
A	ampere	current (I)	BASE UNIT = C/s
V	volt	voltage (V)	J/C = W/A
Ω	ohm	resistance (R)	V/A
S	siemens	conductance (G)	1/ Ω = A/V
F	farad	capacitance (C)	C/V
Wb	weber	magnetic flux	V·s
T	tesla	magnetic flux density	Wb/m ²
H	henry	inductance (L)	Wb/A
Dimensionless			
mol	mole	amount of substance (n) (number of particles)	BASE UNIT = g/Da = g/u = 6.02×10^{23}
rad	radian	plane angle	1/2 π of a circle
sr	steradian	solid angle	1/4 π of a sphere
Visible Light			
lm	lumen	Luminous flux	cd·sr = 1/683 W @ 540 THz
cd	candela	luminous intensity (I)	BASE UNIT = lm/sr
lx	lux	illuminance (E)	lm/m ²
Radiology & Biochemistry			
Bq	becquerel	radioactivity	1/s (decays per second)
Gy	gray	absorbed dose (D)	J/kg (of body mass)
Sv	sievert	dose equivalent (H)	Gy· Q (Q = quality factor)
kat	katal	catalytic activity	mol/s

Si The International System Of Units

E. A. Mechtly



Si The International System Of Units:

International System of Units (SI) (rev. , 2008 Ed.) Barry N. Taylor, 2009-11 The International System of Units universally abbreviated SI is the modern metric system of measurement Long the dominant system used in science the SI is rapidly becoming the dominant measurement system used in international commerce The definitive international reference on the SI is a document published by the International Bureau of Weights and Measures and often referred to as the SI document It is in French followed by a text in English This 2008 edition is the U S version of the English text of the 8th most current edition of the document Illustrations

The International System of Units (SI) International Bureau of Weights and Measures, 1977

The International System of Units (SI) Bureau international des poids et mesures, Paris, International Bureau of Weights and Measures, 1972

The Complete Metric System with the International System of Units (SI). A. L. Le Maréchal, John P. Ciaramella, 1973 This compilation is intended as a guide to the use of the new International Metric System SI in the United States and to disseminate its basic principles so as to enable educators and others to put it to use Pref Contents International System of Units Physical constants and conversion factors United States customary and international metric Guide to the use of the International System of units SI with special tables index Published 1973

The Metric System Adventure, 1992-06

Guide for the Use of the International System of Units (SI) Barry N. Taylor, 1995-11 A basic introduction to the metric system Covers the three classes of SI units units outside the SI rules rules comments on some quantities rules printing conversion factors comments on the references of the SI for the U S Extensive bibliography

The International System of Units E. A. Mechtly, 1969

Adopting the International System of Units for Radiation Measurements in the United States National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, 2017-02-27 Most countries in the world use the SI Syst me International also known as the metric system units for radiation measurements in commercial and technical activities The United States in contrast uses a mix of SI and conventional units for radiation measurements despite 30 year old national and international recommendations to exclusively use SI Radiation professionals in the United States are faced with the need to understand both systems and make conversions between the two In September 2016 the National Academies of Sciences Engineering and Medicine organized a workshop to explore potential communication improvements associated with adopting the international system of units SI units for radiation measurements in the United States Participants discussed potential improvements in the effectiveness of responding to national and international radiation emergencies international experiences in adopting the exclusive use of SI units of radiation measurements and steps needed to adopt the exclusive use of SI units in the US in terms of timing implementation and ways to overcome or manage technical economic and policy barriers This publication summarizes the presentations and discussions from the workshop

Standard Practice for Use of the International System of Units (SI) American Society for Testing and Materials, 1993

Guide for the

Use of the International System of Units (SI) (rev.) Ambler Thompson, 2009-11 A guide to assist users of the metric system Internat System of Units SI to inform them of changes in the SI and in SI usage Contents 1 Intro 2 NIST Policy on the Use of the SI 3 Other Sources of Info on the SI 4 The Two Classes of SI Units and the SI Prefixes 5 Units Outside the SI 6 Rules and Style Conventions for Printing and Using Units 7 Rules and Style Conventions for Expressing Values of Quantities 8 Comments on Some Quantities and Their Units 9 Rules and Style Conventions for Spelling Unit Names 10 More on Printing and Using Symbols and Numbers in Scientific and Technical Documents Appendix A Definitions of the SI Base Units Appendix B Conversion Factors Illustrations *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1971 **Publications of the National Bureau of Standards, 1971 Catalog** Betty L. Oberholtzer, 1972 *NBS Special Publication* , 1968 Publications United States. National Bureau of Standards, 1971 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1978 **Catalog of National Bureau of Standards Publications, 1966-1976: Key word index** United States. National Bureau of Standards. Technical Information and Publications Division, 1978 **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards, 1978 **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards. Technical Information and Publications Division, 1978 **Auravana Material System** Auravana, 2022-06-16 This publication is the Material System for a community type society A material system describes the organized structuring of a material environment the material structuring of community This material system standard identifies the structures technologies and other processes constructed and operated in a material environment and into a planetary ecology A material system encodes and expresses our resolved decisions When a decision resolves into action that action is specified to occur in the material system Here behavior influences the environment and in turn the environment influences behavior The coherent integration and open visualization of the material systems is important if creations are to maintain the highest level of fulfillment for all individuals This standard represents the encoding of decisions into an environment forming lifestyles within a habitat service system The visualization and simulation of humanity s connected material integrations is essential for maintaining a set of complex fulfillment oriented material constructions As such the material system details what has been what is and what could be constructed from our information model into our environment This specification depicts through language and symbols visualization and simulation a material environment consisting of a planetary ecology and embedded network of integrated city systems For anything that is to be constructed in the material system there is a written part a drawing part and a simulation part which is also how the material system is sub divided **NASA Technical Memorandum** , 1976

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