

International System of Units (SI)

SI Base Units

Base Quantity	Name	Symbol
Length	meter	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Temperature	kelvin	K
Amount of substance	mole	mol
Luminous intensity	candela	cd

SI Derived Units

Derived Quantity	Name	Symbol	Equivalent SI units
Frequency	hertz	Hz	s^{-1}
Force	newton	N	$m \cdot kg \cdot s^{-2}$
Pressure	pascal	Pa	N/m^2
Energy	joule	J	$N \cdot m$
Power	watt	W	J/s
Electric charge	coulomb	C	$s \cdot A$
Electric potential	volt	V	W/A
Electric resistance	ohm	Ω	V/A
Celsius temperature	degree Celsius	$^{\circ}C$	K°

*Unit degree Celsius is equal in magnitude to unit kelvin.

SI Prefixes

Factor	Name	Symbol	Numerical Value
10^{12}	tera	T	1 000 000 000 000
10^9	giga	G	1 000 000 000
10^6	mega	M	1 000 000
10^3	kilo	k	1 000
10^2	hecto	h	100
10^1	deka	da	10
10^{-1}	deci	d	0.1
10^{-2}	centi	c	0.01
10^{-3}	milli	m	0.001
10^{-6}	micro	μ	0.000 001
10^{-9}	nano	n	0.000 000 001
10^{-12}	pico	p	0.000 000 000 001

• Adapted from NIST Special Publication 811

• SI rules and style conventions recommend using spaces rather than commas to separate groups of three digits.



The Complete Metric System With The International System Of Units Si

KJ Lindholm-Leary



The Complete Metric System With The International System Of Units Si:

The Complete Metric System with the International System of Units (SI). A. L. Le Maraic, 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 **Scientific Unit Conversion** Francois Cardarelli, 2012-12-06 Ph D in Chemical Engineering Postgraduate Degree in Electrochemistry M Sc in Physical Chemistry B Sc in Physical Chemistry and Nuclear Engineering in Geophysics and Geology Associate Degree Author Working Areas The successive author working areas since 1990 up to 1997 are in order 1 Research scientist at the Laboratory of Electrochemistry University Pierre 2 Research scientist at the Institute of Marine Biogeochemistry CNRS 3 Research scientist for the production of tantalum protective coatings for the chemical process industries by electro chemistry in molten salts 4 Research scientist for the preparation and characterization of IrOrbased Dimensionally Stable Anodes DSA for oxygen evolution in acidic media used in industrial electrochemical processes Laboratory of Electrochemical Engineering Toulouse 5 Consultant in Electrochemical Engineering Toulouse 6 Battery Product Leader Argo Tech Productions Inc Boucheville Quebec Canada Contents List of Tables xiii 1 Introduction 1 1 1 Why a Conversion Handbook 1 1 2 How to Use This Book 2 2 The International System of Units 3 2 1 History 3 2 2 The General Conference on Weights and Measures 6 2 3 Organization of the SI 6 2 3 1 SI Base Units 7 2 3 2 SI Supplementary Units 9 2 3 3 SI Derived Units **Book Catalog of the Library and Information Services Division: Subject index** Environmental Science Information Center. Library and Information Services Division, 1977 **Book catalog of the Library and Information Services Division** Environmental Science Information Center. Library and Information Services Division, 1977 Encyclopaedia of Scientific Units, Weights and Measures François Cardarelli, 2012-12-06 Mankind has a fascination with measurement Down the centuries we have produced a plethora of incompatible and duplicatory systems for measuring everything from the width of an Egyptian pyramid to the concentration of radioactivity near a nuclear reactor and the value of the fine structure constant With the introduction first of the metric system and of its successor the Syst me International d Unit s SI the scientific community has established a standard method of measurement based on only seven core units The Encyclopaedia of Scientific Units Weights and Measures converts the huge variety of units from all over the world in every period of recorded history into units of the SI Featuring An A Z of conversion tables for over 10 000 units of measurements Tables of the fundamental constants of nature with their units Listings of professional societies and national standardization bodies for easy reference An extensive bibliography detailing further reading on the multifarious aspects of measurement and its units This huge work is simply a must have for any reference library frequented by scientists of any discipline or by those with historical interests in units of

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