

TABLE I An abbreviated list of the CODATA recommended values of the fundamental constants of physics and chemistry based on the 2014 adjustment.

Quantity	Symbol	Numerical value	Unit	Relative std. uncert. u_r
speed of light in vacuum	c, c_0	299 792 458	m s^{-1}	exact
magnetic constant	μ_0	$4\pi \times 10^{-7}$ $= 12.566\,370\,614\dots \times 10^{-7}$	N A^{-2} N A^{-2}	exact
electric constant $1/\mu_0 c^2$	ϵ_0	$8.854\,187\,817\dots \times 10^{-12}$	F m^{-1}	exact
Newtonian constant of gravitation	G	$6.674\,08(31) \times 10^{-11}$	$\text{m}^3 \text{kg}^{-1} \text{s}^{-2}$	4.7×10^{-5}
Planck constant	h	$6.626\,070\,040(81) \times 10^{-34}$	J s	1.2×10^{-8}
$h/2\pi$	\hbar	$1.054\,571\,800(13) \times 10^{-34}$	J s	1.2×10^{-8}
elementary charge	e	$1.602\,176\,6208(98) \times 10^{-19}$	C	6.1×10^{-9}
magnetic flux quantum $h/2e$	Φ_0	$2.067\,833\,831(13) \times 10^{-15}$	Wb	6.1×10^{-9}
conductance quantum $2e^2/h$	G_0	$7.748\,091\,7310(18) \times 10^{-5}$	S	2.3×10^{-10}
electron mass	m_e	$9.109\,383\,56(11) \times 10^{-31}$	kg	1.2×10^{-8}
proton mass	m_p	$1.672\,621\,898(21) \times 10^{-27}$	kg	1.2×10^{-8}
proton-electron mass ratio	m_p/m_e	1836.152 673 89(17)		9.5×10^{-11}
fine-structure constant $e^2/4\pi\epsilon_0\hbar c$	α	$7.297\,352\,5664(17) \times 10^{-3}$		2.3×10^{-10}
inverse fine-structure constant	α^{-1}	137.035 999 139(31)		2.3×10^{-10}
Rydberg constant $\alpha^2 m_e c/2\hbar$	R_∞	10 973 731.568 508(65)	m^{-1}	5.9×10^{-12}
Avogadro constant	N_A, L	$6.022\,140\,857(74) \times 10^{23}$	mol^{-1}	1.2×10^{-8}
Faraday constant $N_A e$	F	96 485.332 89(59)	C mol^{-1}	6.2×10^{-9}
molar gas constant	R	8.314 4598(48)	$\text{J mol}^{-1} \text{K}^{-1}$	5.7×10^{-7}
Boltzmann constant R/N_A	k	$1.380\,648\,52(79) \times 10^{-23}$	J K^{-1}	5.7×10^{-7}
Stefan-Boltzmann constant $(\pi^2/60)\hbar^4/h^3 c^2$	σ	$5.670\,367(13) \times 10^{-8}$	$\text{W m}^{-2} \text{K}^{-4}$	2.3×10^{-6}
Non-SI units accepted for use with the SI				
electron volt (e/C) J	eV	$1.602\,176\,6208(98) \times 10^{-19}$	J	6.1×10^{-9}
(unified) atomic mass unit $\frac{1}{12}m(^{12}\text{C})$	u	$1.660\,539\,040(20) \times 10^{-27}$	kg	1.2×10^{-8}

Fundamentals Of Physical Constants

Ruey-Hung Chen



Fundamentals Of Physical Constants:

Foundational Principles of Physics Aditya Saxena, 2025-02-20 Foundational Principles of Physics covers everything you ever wanted to know about physics from the basics to cutting edge theories We start with the history of physics and the scientific method then dive into core concepts such as force motion energy and momentum We emphasize the importance of math in physics teaching algebra trigonometry and calculus along the way to help you understand the equations behind physics concepts Mechanics is a significant focus covering the rules that govern motion forces and energy The book also explores other areas of physics like thermodynamics waves electricity and magnetism and modern physics topics like relativity and quantum mechanics Foundational Principles of Physics is written clearly and uses real world examples to explain difficult concepts This book is perfect for students educators and anyone who wants to learn more about how the universe works

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Bunge,2013-03-13 This is not an introduction to physics but an analysis of its foundations Indeed the aims of this book are 1 to analyze the form and content of some of the key ideas of physics 2 to formulate several basic physical theories in an explicit and orderly i e axiomatic fashion 3 to exhibit their presuppositions and discuss some of their philosophical implications 4 to discuss some of the controversial issues and 5 to debunk certain dusty philosophical tenets that obscure the understanding of physics and hinder its progress To the extent to which these goals are attained the volume can serve as a companion to studies in theoretical physics aiming at deepening the understanding of the logical structure and the physical meaning of our science In order to keep the book slender whole fields of basic physical research had to be excluded chiefly many body physics quantum field theories and elementary particle theories A large coverage was believed to be less important than a comparatively detailed analysis and reconstruction of three representative monuments classical mechanics general relativity and quantum mechanics as well as their usually unrecognized presuppositions The reader is invited to join the project and supply some of the many missing chapters or to rewrite the present ones entirely **Universal Physical Constants**

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Patrick F. Dunn, 2019-02-20 A combination of two texts authored by Patrick Dunn this set covers sensor technology as well as basic measurement and data analysis subjects a combination not covered together in other references Written for junior level mechanical and aerospace engineering students the topic coverage allows for flexible approaches to using the combination book in courses MATLAB applications are included in all sections of the combination and concise applied coverage of sensor technology is offered Numerous chapter examples and problems are included with complete solutions available

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Robert Golub, Steve Lamoreaux, 2023-05-04 Following the path by which humanity learned quantum mechanics can lead to an improved teaching and understanding of the fundamental theory and the origins of its perceived limitations The purpose of this textbook is to retrace the development of quantum mechanics by investigating primary sources including original

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