

Useful Data

M_e	Mass of the earth	5.98×10^{24} kg	
R_e	Radius of the earth	6.37×10^6 m	
g	Free-fall acceleration on earth	9.80 m/s ²	
G	Gravitational constant	6.67×10^{-11} N m ² /kg ²	
k_B	Boltzmann's constant	1.38×10^{-23} J/K	
R	Gas constant	8.31 J/mol K	
N_A	Avogadro's number	6.02×10^{23} particles/mol	
T_0	Absolute zero	-273°C	
σ	Stefan-Boltzmann constant	5.67×10^{-8} W/m ² K ⁴	
P_{atm}	Standard atmosphere	$101,300$ Pa	
V_{sound}	Speed of sound in air at 20°C	343 m/s	
m_p	Mass of the proton (and the neutron)	1.67×10^{-27} kg	
m_e	Mass of the electron	9.11×10^{-31} kg	
K	Coulomb's law constant ($1/4\pi\epsilon_0$)	8.99×10^9 N m ² /C ²	
ϵ_0	Permittivity constant	8.85×10^{-12} C ² /N m ²	
μ_0	Permeability constant	1.26×10^{-6} T m/A	
e	Fundamental unit of charge	1.60×10^{-19} C	
c	Speed of light in vacuum	3.00×10^8 m/s	
h	Planck's constant	6.63×10^{-34} J s	4.14×10^{-15} eV s
$\hbar$	Planck's constant	1.05×10^{-34} J s	6.58×10^{-16} eV s
a_B	Bohr radius	5.29×10^{-11} m	

Common Prefixes

Prefix	Meaning
femto-	10^{-15}
pico-	10^{-12}
nano-	10^{-9}
micro-	10^{-6}
milli-	10^{-3}
centi-	10^{-2}
kilo-	10^3
mega-	10^6
giga-	10^9
terra-	10^{12}

Conversion Factors

Length
1 in = 2.54 cm
1 mi = 1.609 km
1 m = 39.37 in
1 km = 0.621 mi
Velocity
1 mph = 0.447 m/s
1 m/s = 2.24 mph = 3.28 ft/s
Mass and energy
1 u = 1.661×10^{-27} kg
1 cal = 4.19 J
1 eV = 1.60×10^{-19} J

Time
1 day = 86,400 s
1 year = 3.16×10^7 s
Pressure
1 atm = 101.3 kPa = 760 mm of Hg
1 atm = 14.7 lb/in ²
Rotation
1 rad = $180^\circ/\pi = 57.3^\circ$
1 rev = $360^\circ = 2\pi$ rad
1 rev/s = 60 rpm

Mathematical Approximations

Binominal Approximation: $(1 + x)^n \approx 1 + nx$ if $x \ll 1$

Small-Angle Approximation: $\sin \theta \approx \tan \theta \approx \theta$ and $\cos \theta \approx 1$ if $\theta \ll 1$ radian

Greek Letters Used in Physics

Alpha		α	Mu	μ
Beta		β	Pi	π
Gamma	Γ	γ	Rho	ρ
Delta	Δ	δ	Sigma	σ
Epsilon		ϵ	Tau	τ
Eta		η	Phi	ϕ
Theta	Θ	θ	Psi	ψ
Lambda		λ	Omega	ω

Mathematical Constants

Unknown



Mathematical Constants:

Mathematical Constants Steven R. Finch, 2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place *Mathematical Constants II* Steven R. Finch, 2003 Famous mathematical constants include the ratio of circular circumference to diameter π and the natural logarithm base e Students and professionals can often name a few others but there are many more buried in the literature and awaiting discovery How do such constants arise and why are they important Here the author renews the search he began in his book *Mathematical Constants* adding another 133 essays that broaden the landscape Topics include the minimality of soap film surfaces prime numbers elliptic curves and modular forms Poisson Voronoi tessellations random triangles Brownian motion uncertainty inequalities Prandtl Blasius flow from fluid dynamics Lyapunov exponents knots and tangles continued fractions Galton Watson trees electrical capacitance from potential theory Zermelo's navigation problem and the optimal control of a pendulum Unsolved problems appear virtually everywhere as well This volume continues an outstanding scholarly attempt to bring together all significant mathematical constants in one place *Miscellaneous Mathematical Constants* Various, 2022-11-21 *Miscellaneous Mathematical Constants* is a collection of mathematical constants The constants include The Backhouse constant The Bernstein Constant The Catalan Constant The Champernowne Constant Copeland Erdos constant $\cos 1$ to 15000 digits among others as compiled and presented by the famed mathematician Simon Plouffe Simon Plouffe is a mathematician who discovered the Bailey Borwein Plouffe formula BBP algorithm which permits the computation of the n th binary digit of π in 1995 *A List of Factorial Math Constants* Unknown, 2020-10-30 **Mathematical Constants ICM Edition** Finch, 2010-07-23 *MATHEMATICAL CONSTANTS.*, 1971 This collection of mathematical data consists of two tables of decimal constants arranged according to size rather than function a third table of integers from 1 to 1000 giving some of their properties and a fourth table listing some infinite series arranged according to increasing size of the coefficients of the terms The decimal values of Tables I and II are given to 20 D **Mathematical Constants** H. P. Robinson, Elinor Potter, 1971 *Miscellaneous Mathematical Constants* Simon Plouffe, 2017-06-03 *Miscellaneous Mathematical Constants* by Simon Plouffe **The Principles of Science** William Stanley Jevons, 1913 **Analytical Principles of the Production of Oil, Gas, and Water from Wells** Stanley Carrollton Herold, 1928 **A Manual of Problems and Tables in Statistics** Frederick Cecil Mills, Donald Hills Davenport, 1925 **The Mannheim Slide Rule** William Edwin Breckenridge, 1924 **Popular Science Library**, 1906 **Modern Inventions and Discoveries** Ray Stannard Baker, 1904 *The Principles*

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Unveiling the Magic of Words: A Overview of "**Mathematical Constants**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Mathematical Constants**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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