PHYSICS FORMULAS AND CONSTANTS				
Speed Of Light		h-bar	Mass Of Electron	
$c = \frac{1}{\sqrt{1 - 3.0 \times 10^8}} = 3.0 \times 10^8$	m/s	$t_1 = \frac{h}{2\pi}$	$m_e = 9.11 \times 10^{-31} \text{kg}$	
111000		Planck's Constant	$m_{\rm E} = 5.98 \times 10^{24} \text{ kg}$	
Permittivity Of Free Sp		= 4.14×10 ⁻¹⁵ eV·s		
$\varepsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/(\text{N} \cdot$	m-)	Boltzmann's Constant	Ideal Gas Constant $R = 8.31 \text{ J/(mol \cdot K)}$	
Permeability Of Free Sp	~ - 1.3	8×10 ⁻²³ J/(molecule·K)		
$\mu_0 = 4\pi \times 10^{-2} \text{ (T · m)}$		Charge Of Electron	Avogadro's Number $N_{\lambda} = 6.02 \times 10^{23} \text{ molecules/mol}$	
Acceleration Due To Gra At Earth's Surface	wity	e = 1.6×10 ⁻¹⁹ C 1 Atomic Mass Unit		
0.8 1-2		amu = 1.66×10 ⁻²⁷ kg	Radius Of Earth	
Gravitational Constant		1 Electron Volt	$R_{\rm E} = 6.38 \times 10^6 \text{ m}$	
$G = 6.67 \times 10^{-11} \text{ (N · m}^2)$		$1 \text{ eV} = 1.6 \times 10^{-19} \text{J}$	Stefan-Boltzmann Constant	
	-	Coulomb's Constant $\frac{1}{1 - \epsilon} = 8.99 \times 10^{\circ} \text{ N} \cdot \text{m}^2 / \text{C}^2$	$\sigma = 5.67 \times 10^{-8} \text{ W/(m}^2 \cdot \text{K}^4)$	
DYNAMICS AND KINEMA		WORK, ENERGY, POWER, AND MOMENTUM	ROTATIONAL MOTION	
		$V = \int \vec{F} \cdot ds$ $P = \frac{dW}{dt}$	$s = r\theta$	
		di	$\theta = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2$	
E _ dp	V k	$U_{+} = \frac{1}{2}kx^{2} \qquad D = mv$ $U_{+} = mgh \qquad E \qquad dU$	$\vec{\tau} = \vec{r} \times \vec{F}, \ \vec{\tau} = \frac{d\vec{L}}{dt}$	
$F_{ac} = \frac{dp}{dt}$		$C_x = mgh$ $F_x = -\frac{dC}{dx}$ $CE = \frac{1}{2}mv^2$ $F_x = -\frac{dC}{dx}$	$\vec{L} = \vec{r} \times \vec{p}, \ \vec{L} = I\vec{\omega}$	
			$I_{emg} = MR^2$	
$f_* = \mu_* N$ $T = 2$	To Vingr	$P_{cm} = \frac{\sum m_i r_i}{\sum m_i} \cdot P_{cm} = \frac{\int r dm}{\int dm}$	$I_{dec} = \frac{1}{2}MR^2$	
$a_c = \frac{v^2}{r} = \omega^2 r$	V mgr	-	$I_{sphere} = \frac{2}{5}MR^2$	
UNIVERSAL GRAVITATION		THERMODYNAMICS	WAVES	
$F = \frac{Gm_1m_2}{r^2}$	$\Delta L = \alpha L_{\Delta} \Delta$		v = 52	
$T^2 = \frac{4\pi^2}{GM}r^3$	$Q = mc\Delta T$ $Q = Lm$		$y = A\sin(kx - \omega t)$	
$U_x = -\frac{Gm_rm_z}{r}$	pV = nRT =	= -12	$k = \frac{2\pi}{\lambda}$	
MAGNETISM	dE = dQ - d	$\frac{dQ}{dt} = kA \frac{T_H - T_C}{L}$	$r = \sqrt{\frac{r}{\mu}}$	
$\Phi_{B} = \int \vec{B} \cdot d\vec{A}$	$e = \frac{W_{\text{cont}}}{Q_{\text{m}}}$			
$\vec{F} = q\vec{v} \times \vec{B}$		ELECTROSTATICS	J J V + V.	
$\vec{F} = i\vec{l} \times \vec{B}$	$F = \frac{1}{4\pi\epsilon_o}$	$\frac{q_1q_2}{r^2}$ $\Delta V = -\int \vec{E} \cdot d\vec{s}$	$I = \frac{P}{A}$	
$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i d\vec{s} \times \hat{r}}{r^2}$			$\beta = (10 \text{ dB}) \log_{10} \frac{I}{I_0}$	
	E - 1	9	CURRENTS	
$\overline{\tau} = \overline{\mu} \times \overline{B}$ MECHANICS OF FLUIDS	$E = \frac{1}{4\pi\epsilon}$		$i = \frac{dq}{dt}$	
$p = p_o + \rho g h$	U-9	$C = \frac{\kappa \epsilon_0 A}{d}$	$J = n q v_{\sigma}$	
$\rho vA = constant$			$E = \rho J$	
	$V = \frac{1}{4\pi c}$	$\frac{q}{\varepsilon_0 r}$ $U = \frac{1}{2}CV^2$		
$p + \frac{1}{2}\rho v^2 + \rho gh = \text{constant}$			$R = \frac{\rho \ell}{A}$	
MODERN PHYSICS		PHYSICAL (WAVE) OPT		
	$\bar{c} = hf$	$d\sin\theta = m\lambda, m = 0, \pm 1$	-3	
6		$2d\sin\theta = m\lambda, m = 0, \pm 1$. ±2	
$\gamma = \frac{1}{\sqrt{1-\beta^2}}$ eV _o	$-hf-\Phi$	$\sin\theta = 1.22\frac{\lambda}{\cdot}$	$i = I_0 e^{i \kappa c}$	
11 82		a		
zar - praco	= OAeT		AMPERE'S LAW, FARADAY'S LAW, AND MAXWELL'S EQUATIONS	
$L = \frac{L_0}{\gamma} \qquad \lambda_{\text{max}} T = 2.898 \times 10^{-3} \text{ m} \cdot \text{K}$		SE-dA = O	$\varepsilon_L = -L \frac{di}{dt}$	
$E = (-13.60)0^{-2^2}$		\$B-dA=0	$U = \frac{1}{2}LI^2$	
. 10.20	$\Delta p = \frac{h}{2}$	$\oint \vec{E} \cdot d\vec{s} = -\frac{d\Phi_{B}}{dt}$	$L = \mu_0 n^2 A \ell$	
h	- Noe *	\$ B-d5 - 40-	$I = I\left(1 - e^{-\frac{\alpha E}{E}}\right)$	
GEON	METRICAL (RAY) O	PTICS	$f_R = \frac{1}{2\pi\sqrt{LC}}$	
$n = \frac{c}{v} \qquad I = I_0 \cos^2 \theta \qquad m = -\frac{d_s}{d_s}$				
$n_1 \sin \theta_1 = n_2 \sin \theta_2$			$Z = \sqrt{R^2 + \left(\omega L - \frac{1}{\omega C}\right)^2}$	
	$\frac{1}{d} + \frac{1}{d} = \frac{1}{f}$	$\frac{1}{f} = (n-1)\left(\frac{1}{R_1} - \frac{1}{R_2}\right)$	ν (ωc)	
$\Theta_{N} = \tan \left(\frac{n_{2}}{n_{1}} \right)$		(, , , , ,		

General Physics Equations Sheet Explained

Indiana University. School of Education. Division of Research and Field Services, Henry Lester Smith, Wendell William Wright

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Army Research Task Summary, 1960 Scientific and Technical Aerospace Reports ,1993 Science Abstracts How Cosmologists Explain the Universe to Friends and Family Karim A. Malik, David R. ,1915 Matravers, 2019-11-21 This fascinating book provides an accessible and up to date overview of modern cosmology In particular the book discusses the formation of the Cosmic Microwave Background and the evolution of large scale structures in the universe the distribution of galaxies and clusters of galaxies on very large distance scales Following a brief introduction the authors describe the scientific method how science is done They then discuss observational cosmology the instruments and what observations can be done with them and what is derived from those observations After discussing the constituents of the universe including dark matter and dark energy the authors provide an outline of the forces that shape the universe with particular emphasis on gravitation Following this the reader is taken on a journey in time from the present day back to the very beginning of the universe a period called inflation which sets the initial conditions for the subsequent evolution of the universe The book ends with a brief chapter on what lies beyond Written by two experts the book is aimed at the interested lay person with little or no physics background but an interest in modern cosmology Fusion Energy Update ,1986 Publications of the National Institute of Standards and Research Reports ,1962 Technology ... Catalog National Institute of Standards and Technology (U.S.), 1985 AFHRL-TR. Air Force Human A Course in Mathematical Analysis: pt.2. Differential equations. [c1917 Edouard Resources Laboratory, 1968 Goursat.1916 Keywords Index to U.S. Government Technical Reports (permuted Title Index). United States. Department of Commerce. Office of Technical Services, 1962 Publications of the National Bureau of Standards United States. National Bureau of Standards.1984 **Nuclear Science Abstracts** ,1976 Summer Session ... Preliminary Announcement Iowa State College of Agriculture and the Mechanical Arts, 1926 Journal of the Aeronautical Sciences ,1940 Arctic ,1981 General Catalogue Carnegie Institute of Technology, 1915 U.S. Government Research & Development Keywords Index to U.S. Government Technical Reports United States. Department of Commerce. Office of **Reports** ,1967 Technical Services.1962 Cities and Their Vital Systems Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible Second Revision of the Bibliography of Educational Measurements Indiana University. School of Education. Division of Research and Field Services, Henry Lester Smith, Wendell William Wright, 1927

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