

Physics formulas from Mechanics, Waves, Optics, Heat and Thermodynamics, Electricity and Magnetism and Modern Physics. Also includes the value of Physical Constants. Helps in quick revision for **CBSE, NEET, JEE Mains**, and **Advanced**.

0.1: Physical Constants

Speed of light	c	$3 \times 10^8 \text{ m/s}$
Planck constant	h	$6.63 \times 10^{-34} \text{ J s}$
	hc	1242 eV-nm
Gravitation constant	G	$6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
Boltzmann constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Molar gas constant	R	8.314 J/(mol K)
Avogadro's number	N_A	$6.023 \times 10^{23} \text{ mol}^{-1}$
Charge of electron	e	$1.602 \times 10^{-19} \text{ C}$
Permeability of vacuum	μ_0	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of vacuum	ϵ_0	$8.85 \times 10^{-12} \text{ F/m}$
Coulomb constant	$\frac{1}{4\pi\epsilon_0}$	$9 \times 10^9 \text{ N m}^2/\text{C}^2$
Faraday constant	F	96485 C/mol
Mass of electron	m_e	$9.1 \times 10^{-31} \text{ kg}$
Mass of proton	m_p	$1.6726 \times 10^{-27} \text{ kg}$
Mass of neutron	m_n	$1.6749 \times 10^{-27} \text{ kg}$
Atomic mass unit	u	$1.66 \times 10^{-27} \text{ kg}$
Atomic mass unit	u	$931.49 \text{ MeV}/c^2$
Stefan-Boltzmann constant	σ	$5.67 \times 10^{-8} \text{ W/(m}^2 \text{ K}^4)$
Rydberg constant	R_∞	$1.097 \times 10^7 \text{ m}^{-1}$
Bohr magneton	μ_B	$9.27 \times 10^{-24} \text{ J/T}$
Bohr radius	a_0	$0.529 \times 10^{-10} \text{ m}$
Standard atmosphere	atm	$1.01325 \times 10^5 \text{ Pa}$
Wien displacement constant	b	$2.9 \times 10^{-3} \text{ m K}$

1 MECHANICS

1.1: Vectors

Notation: $\vec{a} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$

Magnitude: $a = |\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$

Dot product: $\vec{a} \cdot \vec{b} = a_x b_x + a_y b_y + a_z b_z = ab \cos \theta$

Cross product:



$$\vec{a} \times \vec{b} = (a_y b_z - a_z b_y)\hat{i} + (a_z b_x - a_x b_z)\hat{j} + (a_x b_y - a_y b_x)\hat{k}$$

$$|\vec{a} \times \vec{b}| = ab \sin \theta$$

1.2: Kinematics

Average and Instantaneous Vel. and Accel.:

$$\vec{v}_{av} = \Delta \vec{r} / \Delta t,$$

$$\vec{v}_{inst} = d\vec{r}/dt$$

$$\vec{a}_{av} = \Delta \vec{v} / \Delta t$$

$$\vec{a}_{inst} = d\vec{v}/dt$$

Motion in a straight line with constant a :

$$v = u + at, \quad s = ut + \frac{1}{2}at^2, \quad v^2 - u^2 = 2as$$

Relative Velocity: $\vec{v}_{A/D} = \vec{v}_A - \vec{v}_D$

Projectile Motion:



$$x = ut \cos \theta, \quad y = ut \sin \theta - \frac{1}{2}gt^2$$

$$y = x \tan \theta - \frac{g}{2u^2 \cos^2 \theta} x^2$$

$$T = \frac{2u \sin \theta}{g}, \quad R = \frac{u^2 \sin 2\theta}{g}, \quad H = \frac{u^2 \sin^2 \theta}{2g}$$

1.3: Newton's Laws and Friction

Linear momentum: $\vec{p} = m\vec{v}$

Newton's first law: inertial frame.

Newton's second law: $\vec{F} = \frac{d\vec{p}}{dt}$, $\vec{F} = m\vec{a}$

Newton's third law: $\vec{F}_{AB} = -\vec{F}_{BA}$

Frictional force: $f_{static, max} = \mu_s N$, $f_{kinetic} = \mu_k N$

Banking angle: $\frac{v^2}{rg} = \tan \theta$, $\frac{v^2}{rg} = \frac{\mu + \tan \theta}{1 - \mu \tan \theta}$

Centripetal force: $F_c = \frac{mv^2}{r}$, $a_c = \frac{v^2}{r}$

Pseudo force: $\vec{F}_{pseudo} = -m\vec{a}_0$, $F_{centrifugal} = -\frac{mv^2}{r}$

Minimum speed to complete vertical circle:

$$v_{min, bottom} = \sqrt{5gl}, \quad v_{min, top} = \sqrt{gl}$$

Conical pendulum: $T = 2\pi \sqrt{\frac{l \cos \theta}{g}}$



1.4: Work, Power and Energy

Work: $W = \vec{F} \cdot \vec{S} = FS \cos \theta$, $W = \int \vec{F} \cdot d\vec{S}$

Kinetic energy: $K = \frac{1}{2}mv^2 = \frac{p^2}{2m}$

Potential energy: $F = -\partial U / \partial x$ for conservative forces.

$$U_{gravitational} = mgh, \quad U_{spring} = \frac{1}{2}kx^2$$

Work done by conservative forces is path independent and depends only on initial and final points:
 $\oint \vec{F}_{conservative} \cdot d\vec{r} = 0$.

Work-energy theorem: $W = \Delta K$



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Peipei Pang



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Chaos, Information, And The Future Of Physics: The Seaman-rossler Dialogue With Information Perspectives By Burgin And Seaman William Seaman, Otto E Rossler, Mark Burgin, 2023-06-22 The main part of the book consists of the dialogue between physicist Otto Rossler and artist and AI researcher Bill Seaman with the commentaries disclosing information perspective by information scientist Mark Burgin and Bill Seaman In this dialogue Rossler and Seaman discuss concepts surrounding Rossler's major research over his lifetime Additionally each research topic is linked to the set of papers and books published by Rossler and other related collaborative researchers The goal is to delineate an intellectual directory for future researchers The discussed topics being transdisciplinary in nature cross many fields in science and technology A comprehensive historical bibliography is also included The work explores many fields germane to theoretical science as Rossler was often quite early in developing these fields and interacting with many famous scientists This work pertains to information theory which has often been left out of the historical literature Burgin as an expert in information theory is providing an information perspective on this dialogue adding historical discussion and relevant scientific and mathematical underpinnings of the discussed ideas His observations are complemented by Seaman who presents the synthesis of artistic and scientific outlook Addendum contains articles describing Rossler's relationships to colleagues from multiple fields a parable by Rossler and papers related to Rossler's research and theoretical models of processes in the universe **Graduate Quarterly**, 1997 Monthly Catalog, United States Public Documents United States. Superintendent of Documents, 1973 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index **The Mining Bulletin**, 1894 *MAT 20 years Topic-wise Solved Papers (1997-2016) 7th Edition* Deepak Agarwal, Shipra Agarwal, 2017-08-01 MAT 20 years Topic wise Solved Papers 1997 2016 consists of detailed solutions of the past 20 years of MAT question papers distributed in 55 topics The book is divided into 5 sections MATHEMATICAL SKILLS LANGUAGE COMPREHENSION DATA ANALYSIS AND SUFFICIENCY INTELLIGENCE AND CRITICAL REASONING and INDIAN AND GLOBAL ENVIRONMENT These 5 sections are further divided into 55 chapters The book is also helpful for other exams like CMAT NMAT ATMA IRMA SNAP Bank PO Bank Clerk SSC Railways etc To summarise the book is aimed to serve as one stop solution for all major Competitive Exams The book contains 5800 Milestone problems for the major Competitive Exams The book is fully solved and provides detailed explanation to each and every question The layout of the book is so simple that a student can prepare revise a topic and then solve the previous year questions of that topic from this book **Nuclear Science Abstracts**, 1976 **Aerodynamic Data of Space Vehicles** Claus Weiland, 2014-02-22 The capacity and quality of the atmospheric flight performance of space flight vehicles is characterized by their aerodynamic data bases A complete aerodynamic data base would encompass the coefficients of the static longitudinal and lateral motions and the related

dynamic coefficients In this book the aerodynamics of 27 vehicles are considered Only a few of them did really fly Therefore the aerodynamic data bases are often not complete in particular when the projects or programs were more or less abruptly stopped often due to political decisions Configurational design studies or the development of demonstrators usually happen with reduced or incomplete aerodynamic data sets Therefore some data sets base just on the application of one of the following tools semi empirical design methods wind tunnel tests numerical simulations In so far a high percentage of the data presented is incomplete and would have to be verified Flight mechanics needs the aerodynamic coefficients as function of a lot of variables The allocation of the aerodynamic coefficients for a particular flight operation at a specific trajectory point is conducted by an aerodynamic model The establishment of such models is described in this book This book is written for graduate and doctoral students to give them insight into the aerodynamics of the various flight configurations Further for design and development engineers in industry and at research institutes including universities searching for an appropriate vehicle shape as well as for non specialists who may be interested in this subject The book will be helpful too in the case that system studies require in their concept phases the selection of suitable vehicle shapes

Who's Who in Plastics

Polymers, First Edition James P. Harrington, 2000-05-09 This is the first edition of a unique new plastics industry resource Who's Who in Plastics Polymers It is the only biographical directory of its kind and includes contact affiliation and background information on more than 3300 individuals who are active leaders in this industry and related organizations The biographical directory is in alphabetical order by individual name After each individual name current affiliation and contact information is provided This includes job title full name of affiliation e g business university association research institute business address and electronic contacts telephone fax e mail and Web site Home addresses and contacts are also provided for most of the entries In the biographical summary section for each individual the following information is provided date and place of birth education and educational achievements work experience including company or other organization names positions held and time periods Also included in this section are the number of patents awarded articles and book chapters authored and conference sessions chaired Other information includes titles of books edited or written by the individual listing of conferences where the person had a leadership position and listing of memberships and positions held in professional organizations Finally professional and civic awards are listed Indexes provide listings of individuals by company or other organization name and also by geographical location Who's Who in Plastics Polymers is now published in a limited edition of 1 000 copies This edition will not be reprinted To be sure of receiving your copy please act now Information on ordering follows sample pages on the reverse

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Gellersen, 2003-07-31 The papers collected here are those selected for presentation at the Second International Symposium on Handheld and Ubiquitous Computing 2000 HUC 2000 held in Bristol UK in September 2000 The symposium was the second in a series of symposia which explores new research in the area of emerging mobile personal and handheld

technologies The first event HUC 99 was held in Karlsruhe Germany organised by the Telecooperation Office TecO of the University of Karlsruhe in close collaboration with the Center for Arts and Media Technology ZKM This previous event the first of its kind in the world attracted a large number of paper submissions was attended by over 200 international delegates and demonstrated the growing international interest in the area with contributions from the United States Japan and Europe The 18 papers collected here were chosen from 70 submissions to HUC 2000 and represent a valuable resource for those wishing to understand the themes being pursued in this vibrant and exciting area of technology The papers range from work on intelligent environment and devices user experience and interface design to research in context aware systems wearable computing and location based services Together the papers represent a snapshot of the state of the art in research in handheld and ubiquitous computing The symposium also attracted a large number of short paper submissions and these are available in the Springer journal Personal Technologies volume 4 number 4 which was published in tandem with these proceedings **Applied Mechanics Reviews** ,1974

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