

SEMESTER I

ENGINEERING PHYSICS

EL-101

Unit I

WAVE OPTICS

Theory of Bi-prism and Newton's Rings experiments, Michelson's Interferometer. Diffraction at single slit, Double slit and diffraction grating, resolving Power, Rayleigh criterion, Resolving power of telescope, microscope, grating and prism, concept of polarized light, Nicol prism. Idea about circularly & elliptically polarized light.

Unit-II

QUANTUM PHYSICS

Matter waves, group and particle velocity, uncertainty principle, Schrödinger wave equation and its application. Characteristic and back ground X-rays, Duan Hunt Limit, Moseley's law .Bragg's diffraction and bragg's spectrometer, compiton effect. Stimulated and spontaneous emission, principles of laser action. Properties of solid state(Ruby & Nd YAG) and gas (He-Ne & Co₂) type lasers and their engineering applications. Fundamental ideas about fibre optics

Unit-III

NUCLEAR PHYSICS

Static properties of Nuclear shell model an liquid drop mode, particle accelerator. Cyclotron, Synchrocyclotron 7 Betatron, Nuclear reaction and Q values. Nuclear cross section Nuclear fission, Fission energy. Theory of fission process. Chain reaction. Critical size. Principles of Nuclear reactor and Nuclear fusion. Control fusion and fusion reactor.

Unit IV

SEMICONDUCTOR PHYSICS

Idea of energy bands in solids, distinction between metal insulator & semiconductor. Intrinsic and extrinsic semiconductor electron and hole motilities. Electrical conductivity and Hall effect P-n Junction. Junction Transistors. Transistor parameters. Working principles of thermostat, photo voltaic effect and solar cells. Fundamental ideas superconductivity Meissner effect, Isotope effect, Josephson effect.

Unit-V

DIELECTRIC MATERIALS

Dielectric polarization, Gauss's Law. EP and D vectors .Different type of polarization. Concept of internal fields. Claudius Mosotti relationship. Langevin's theory of dipolar orientation Idea of polar and non-polar dielectrics, Ideal of lossy dielectric. Loss tangent and idea of complex permittivity.

Suggested text books:-

1. Concepts of modern physics by Arthur Beiser.
2. A text book of Engineering Physics by P.G. kshirsagar.
3. Engineering Physics theory & Experments by Shrivastava & Yadav.
4. Physics for Engineers by M.R. Srinivasan.
5. Optics by Ajoy Ghatak.

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Iowa State University



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Applied Physics Semester-I (RTM) Nagpur University M N Avadhanulu, Dr. Shilpa A. Pande, Dr. Arti R. Golhar & Dr. Mohar Giriya, Applied Physics is written exclusively for B Tech First semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University Nagpur RTMNU Nagpur It includes important topics such as Interference of Light Diffraction Compton Effect de Broglie's Hypothesis Heisenberg Uncertainty Principle Space and Cubic Lattice Dispersion Motion of Electron in Uniform Electric Field and Magnetic Field that help the student in learning the principles of Physics more **Guide to College Majors, 2010 Edition** Staff of the Princeton Review, 2010-02 Guide to College Majors 2010 Edition provides everything you need to make the right decision about what you want to major in during college Inside you will find details on courses ways to prepare and career options Guide to College Majors 2010 Edition gives you up to date relevant information on more than 400 majors including Accounting Advertising African American Studies Agriculture Anthropology Archaeology Architecture Art Astronomy Aviation Biology Chemistry Child Care Classics Counseling Culinary Arts Dance Data Processing Economics Education Engineering English Literature Film Finance Geography History Human Resources Management Interior Design Journalism Library Science Linguistics Marketing Mathematics Molecular Genetics Music Nursing Nutrition Oceanography Pharmacy Philosophy Physical Therapy Physics Pre Dentistry Pre Law Pre Medicine Pre Optometry Pre Veterinary Medicine Psychology Radio and Television Real Estate Social Work Statistics Theater Theology Urban Planning Women's Studies and Zoology *Guide to College Majors 2009* Princeton Review, 2009 Provides information on more than four hundred undergraduate majors including related fields sample college curricula suggested high school preparation courses and career and salary prospects for graduates Which Degree?, 1981 Which University, 1972 Guide to College Majors, 2006 **Courses and Programs** Iowa State University, 1999

Guide to College Majors 2008 Princeton Review (Firm), 2008-02-05 Fully revised and updated for 2008 this resource includes the most current information available on more than 350 of the most popular majors Each profile includes an overview of the major career options and earning potential sample college curricula and more **Optical Engineering**, 1984 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology **An Introduction to Partial Differential Equations** Yehuda Pinchover, Jacob Rubinstein, 2005-05-12 A complete introduction to partial differential equations this textbook provides a rigorous yet accessible guide to students in mathematics physics and engineering The presentation is lively and up to date paying particular emphasis to developing an appreciation of underlying mathematical theory Beginning with basic definitions properties and derivations of some basic equations of mathematical physics from basic principles the book studies first order equations classification of second order equations and the one dimensional wave equation Two chapters are devoted to the separation of variables whilst others concentrate on a wide range of topics including elliptic theory Green's

functions variational and numerical methods A rich collection of worked examples and exercises accompany the text along with a large number of illustrations and graphs to provide insight into the numerical examples Solutions to selected exercises are included for students whilst extended solution sets are available to lecturers from solutions cambridge org Optics Education ,2004 **Cornell University Courses of Study** Cornell University,2007 **Beam Propagation Method for Design of Optical Waveguide Devices** Ginés Lifante Pedrola,2015-12-21 The basic of the BPM technique in the frequency domain relies on treating the slowly varying envelope of the monochromatic electromagnetic field under paraxial propagation thus allowing efficient numerical computation in terms of speed and allocated memory In addition the BPM based on finite differences is an easy way to implement robust and efficient computer codes This book presents several approaches for treating the light wide angle scalar approach semivectorial treatment and full vectorial treatment of the electromagnetic fields Also special topics in BPM cover the simulation of light propagation in anisotropic media non linear materials electro optic materials and media with gain losses and describe how BPM can deal with strong index discontinuities or waveguide gratings by introducing the bidirectional BPM BPM in the time domain is also described and the book includes the powerful technique of finite difference time domain method which fills the gap when the standard BPM is no longer applicable Once the description of these numerical techniques have been detailed the last chapter includes examples of passive active and functional integrated photonic devices such as waveguide reflectors demultiplexers polarization converters electro optic modulators lasers or frequency converters The book will help readers to understand several BPM approaches to build their own codes or to properly use the existing commercial software based on these numerical techniques *Catalog Issue* University of Colorado,1974 Cornell University Description of Courses Cornell University,1976 **New Trends in Physics Teaching** ,1976 **The University of Colorado Catalogue** University of Colorado,1963 **Announcer** American Association of Physics Teachers,1996 *Proceedings of Frontiers in Education 1996* IEEE, Education Society Staff,Ieee Education Society,1996-11 **Bulletin** Brown University,1948

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