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Dekkar A.J.; Electrical Engineering Materials; Prentice Hall of India Publication, 1992. Kenneth Crane; Modern Physics; (2 nd Edition); John Wiley Eastern, 1998. Pillai S. O., Solid State Physics, New Age International Publishers, 3 rd edition, 1999. B.tech First-Year Syllabus Physics Unit I: Electrostatics- 8 Boundary conditions and Boundary value problems in electrostatics. The Uniqueness theorem, Laplace and Poisson's equations in electrostatics and their applications, method of electrical images and their simple applications, energy stored in the discrete and continuous system of charges. Unit II: Wave Optics- 8 Methods of formation of coherent sources, Theory of Interference, Fresnel's Biprism, Displacement of Fringes, thin-film interference, Newton's ring, Fraunhofer diffraction at single slit and grating, Rayleigh's criterion of the resolution, resolving power of grating. Unit III: Optical activity and Modern Optics- 8 Production of plane-polarized light by reflection and Double refraction, Nicol prism. Optical activity, Fresnel's theory, polarimeter (Laurentz and Biquartz). Principle of fiber optics, numerical aperture, attenuation, dispersion in optical fibers, material dispersion, waveguide dispersion, intermodal and intramodal dispersion, Pulse dispersion in step-index fiber, Main components of laser, Einstein's coefficients, He-Ne laser, Nd-YAG laser, and their applications. Unit IV: Properties of Matter and Relativistic Mechanics Viscosity, Poiseuille's equation, Frame of reference, Michelson-Morley experiment and its implications, Galilean transformation equations, Einstein's postulates, Lorentz transformation equations, and their consequences, energy mass relation, relativistic kinetic energy. Unit V: Quantum Physics Compton effect, Basic postulates of quantum mechanics, Wave function and its physical admissibility, orthogonality and normalization of wave functions, Heisenberg's uncertainty principle (no derivation) and its applications to (non-existence of electron in nucleus, Bohr's radius), Schrodinger's equation and its application to particle in 1-D box and finite well. B. Tech 1st year Engineering Physics Important Questions Show that FCC Crystals are closely packed than BCC and SC crystals by working out the packing factors. Derive an expression for the concentration of Vacancies at any given temperature. What are the factors affecting Architectural Acoustics and explain the remedies? Discuss different types of Ultrasonic Production Systems. Derive an expression for Internal Fields in Solids. Explain the Hysteresis curve on the basis of Domain theory of Ferromagnetism. Derive the relation between Einstein's Coefficients. explain Optical Fiber Communication Link with a block diagram. Describe any three processes by which Nano materials are fabricated. Explain the Scanning Electron Microscopy. Write a note on Edge and Screw dislocations and explain the significance of Burger's Vector. Explain the principle of Optical Fibre Communication and write a note on Attenuation. Discuss different types of Polarizations in Dielectrics. Derive an expression for Acceptance Angle and Numerical Aperture of an Optical Fiber. Define Electronic Polarization and obtain the relevant mathematical expressions for Electronic Polarization in terms of the radius of the atoms. A paramagnetic material has a magnetic field intensity of 104 A/m. If the Susceptibility of the material at room temperature is 3.7×10<sup>-3</sup> calculate the magnetization and flux density of the material. Illustrate on the construction and working principle of a He-Ne Laser giving its energy level diagram. Write down any four applications of Lasers. Derive an expression for acceptance angle for an optical fiber? How it is related to the numerical aperture. What are the properties of Nano Materials? How the Nano Materials are fabricated using bottom-up, top-down and chemical vapor deposition methods. Briefly, explain about Edge and Screw Dislocations. Explain the band theory of solids qualitatively and use it for classification of the Materials. Mobilities of electrons and holes in a sample of intrinsic germanium at room temperature are 4600 cm<sup>2</sup>/volt-second and 2700 cm<sup>2</sup>/volt-second respectively. If the electron and hole densities are each equal to 3 × 10<sup>13</sup> per cm<sup>2</sup>, calculate the conductivity. Give an account of domain structure and how the hysteresis curve is explained on the basis of Domain theory of ferromagnetism. Explain the following i) Single-mode optical fiber ii) Multimode optical fiber iii) Step-index optical fiber iv) Graded index optical fiber Buy Engineering Physics Books for 1st year Online at Amazon.in We have Provided the Engineering physics 1st Year Notes Free Download – Books & Notes, Lecture Notes, Study Materials Pdf. Candidates who are Searching for B.Tech 1st Year Physics Notes Pdf can download from the following links which we were provided above. Any University student can download given B.Tech Notes and Study material or you can buy B.Tech 1st Year Physics Books at Amazon also. For more information about the B.Tech Notes, visit our website and you can clarify your doubts via comment box. Image not available for Colour: To view this video download Flash Player Techmax book of Applied Physics 2 for subject taught in the first year (Semester 2) in Mumbai University. These books strictly follow the revised syllabus of Mumbai University and cover the entire syllabus. This book serves as a textbook which makes it an ideal choice for engineering students. What does the book contain? Complete syllabus of Applied Physics 2 (AP2) - Mumbai University All the topics mentioned in the university syllabus Important questions at the end of the chapter Can this be used as a textbook for this subject? Definitely. Also, previously asked questions are given at the end of the chapter. (Applied Science - Chemistry Code : 17203) Edition 2014 Entire Book in Question & Answer Format. Multicoloured Diagrams. With Solved MSBTE Question Papers - View PDF (Applied Science - Chemistry Code : ... SCIENCE edition 2 0 1 5 ... Solved MSBTE Question Papers upto Summer 2014 Table of Contents :-Title: View PDF ... Bing. by Justus Bryce. 380 views Msbte Applied Science ... msbte Dec 16, 2013 ... ENGINEERING TECH MAX, View PDF MSBTE - Final Copy Dt. 15 ... TH TU PR Max Min Max Min Max Min Max Min ... \* Applied Science ( View PDF in library (20 years max for calculation) ... 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