

Chapter 34 – Geometric Optics

Problem 34.1 = Y&F 34.70**

A layer of benzene ($n = 1.50$) that is 4.40 cm deep floats on water ($n = 1.33$) that is 6.00 cm deep. What is the apparent distance from the upper benzene surface to the bottom of the water when you view these layers at normal incidence?

Problem 34.2 = Y&F 34.73** Pinhole camera

A pinhole camera is just a rectangular box with a tiny hole in one face. The film is at the face opposite this hole, and that is where the image is formed. The camera forms an image *without* a lens.

- Make a clear ray diagram to show how a pinhole camera can form an image on the film without using a lens. (*Hint:* Put an object outside the hole, and then draw rays passing through the hole to the opposite side of the box.)
- A certain pinhole camera is a box that is 20 cm square and 22.5 cm deep, with the hole in the middle of one of the 20 cm \times 20 cm faces. If this camera is used to photograph a fierce chicken that is 20 cm high and 1.4 m in front of the camera, how large is the image of this bird on the film? What is the lateral magnification of this camera?

Problem 34.3 = Y&F 34.75**

What should be the index of refraction of a transparent sphere in order for paraxial rays from an infinite distant object to be brought to a focus at the vertex of the surface opposite the point of incidence?

Problem 34.4 = Y&F 34.82***

A transparent rod 30.0 cm long is cut flat at one end and rounded to a hemispherical surface of radius 10.0 cm at the other end. A small object is embedded in the rod along its axis and halfway between its ends, 15.0 cm from the flat end and 15.0 cm from the vertex of the curved end. When the rod is viewed from its flat end, the apparent depth of the object is 8.20 cm from the flat end.

What is the apparent depth when the rod is viewed from its curved end?

Problems In Optics Series Of Monographs In Natural Philosophy Vol 5

Karl-Heinz Steiner



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generalized field equation This book also cites the anharmonic oscillator and the single spin as different examples of electric and magnetic dipole interactions This text is suitable for electrical engineers radio technicians physicists whose work is in quantum mechanics and engineers interested in electro magnetism theory Textbook of in vivo Imaging in Vertebrates Vasilis Ntziachristos, Anne Leroy-Willig, Bertrand Tavitian, 2007-08-20 This book describes the new imaging techniques being developed to monitor physiological cellular and subcellular function within living animals This exciting field of imaging science brings together physics chemistry engineering biology and medicine to yield powerful and versatile imaging approaches By combining advanced non invasive imaging technologies with new mechanisms for visualizing biochemical events and protein and gene function non invasive vertebrate imaging enables the in vivo study of biology and offers rapid routes from basic discovery to drug development and clinical application Combined with the availability of an increasing number of animal models of human disease and the ability to perform longitudinal studies of disease evolution and of the long term effects of therapeutic procedures this new technology offers the next generation of tools for biomedical research Well illustrated largely in colour the book reviews the most common and technologically advanced methods for vertebrate imaging presented in a clear comprehensive format The basic principles are described followed by several examples of the use of imaging in the study of living multicellular organisms concentrating on small animal models of human diseases The book illustrates The types of information that can be obtained with modern in vivo imaging The substitution of imaging methods for more destructive histological techniques The advantages conferred by in vivo imaging in building a more accurate picture of the response of tissues to stimuli over time while significantly reducing the number of animals required for such studies Part 1 describes current techniques in in vivo imaging providing specialists and laboratory scientists from all disciplines with clear and helpful information regarding the tools available for their specific research field Part 2 looks in more detail at imaging organ development and function covering the brain heart lung and others Part 3 describes the use of imaging to monitor various new types of therapy following the reaction in an individual organism over time e g after gene or cell therapy Most chapters are written by teams of physicists and biologists giving a balanced coherent description of each technique and its potential applications **Physics in Canada** ,1973 Technical Book Review Index ,1974 Jahrbuch Überblicke Mathematik ,1982 **The Library Journal** ,1974 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately **Optica Acta** ,1975 **Subject Guide to Books in Print** ,1993 Books in Series ,1985 Vols for 1980 issued in three parts Series Authors and Titles *Optics and Spectroscopy* ,1976 **Internationale zeitschrift für wissenschaftliche synthese** ,1974 Choice ,1974 **Directions** ,1979 **Library Journal** ,1974 **The British National Bibliography** Arthur James Wells,1973 **Library Journal** Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1973 Includes beginning Sept 15 1954

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