

# Physics

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[Chapter 9](Ray Optics and Optical Instruments)

XII

## Question 9.1:

A small candle, 2.5 cm in size is placed at 27 cm in front of a concave mirror of radius of curvature 36 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Describe the nature and size of the image.

If the candle is moved closer to the mirror, how would the screen have to be moved?

## Answer 9.1:

Size of the candle,  $h = 2.5$  cm

Image size =  $h'$

Object distance,  $u = -27$  cm

Radius of curvature of the concave mirror,  $R = -36$  cm

Focal length of the concave mirror,  $f = \frac{R}{2} = -18$  cm

Image distance =  $v$

The image distance can be obtained using the mirror formula:

$$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$$

$$\frac{1}{v} = \frac{1}{f} - \frac{1}{u}$$

$$= \frac{1}{-18} - \frac{1}{-27} = \frac{-3 + 2}{54} = -\frac{1}{54}$$

$$\therefore v = -54 \text{ cm}$$

Therefore, the screen should be placed 54 cm away from the mirror to obtain a sharp image.

The magnification of the image is given as:

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# Chapter 9 Exercises Physics

**Siegmund Brandt, Hans D. Dahmen**



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**Analytical and Computational Methods of Advanced Engineering Mathematics** Grant B. Gustafson, Calvin H. Wilcox, 2012-12-06 NOTES This text focuses on the topics which are an essential part of the engineering mathematics course ordinary differential equations vector calculus linear algebra and partial differential equations Advantages over competing texts 1 The text has a large number of examples and problems a typical section having 25 quality problems directly related to the text 2 The authors use a practical engineering approach based upon solving equations All ideas and definitions are introduced from this basic viewpoint which allows engineers in their second year to understand concepts that would otherwise be impossibly abstract Partial differential equations are introduced in an engineering and science context based upon modelling of physical problems A strength of the manuscript is the vast number of applications to real world problems each treated completely and in sufficient depth to be self contained 3 Numerical analysis is introduced in the manuscript at a completely elementary calculus level In fact numerics are advertised as just an extension of the calculus and used generally as enrichment to help communicate the role of mathematics in engineering applications 4 The authors have used and updated the book as a course text over a 10 year period 5 Modern outline as contrasted to the outdated outline by Kreysig and Wylie 6 This is now a one year course The text is shorter and more readable than the current reference type manuals published all at around 1300 1500 pages

**Group Theory & General Relativity** Moshe Carmeli, 2000-11-15 This is the only book on the subject of group theory and Einstein's theory of gravitation It contains an extensive discussion on general relativity from the viewpoint of group theory and gauge fields It also puts together in one volume many scattered original works on the use of group theory in general relativity theory There are twelve chapters in the book The first six are devoted to rotation and Lorentz groups and their representations They include the spinor representation as well as the infinite dimensional representations The other six chapters deal with the application of groups particularly the Lorentz and the  $SL(2, C)$  groups to the theory of general relativity Each chapter is concluded with a set of problems The topics covered range from the fundamentals of general relativity theory its formulation as an  $SL(2, C)$  gauge theory to exact solutions of the Einstein gravitational field equations The important Bondi Metzner Sachs group and its representations conclude the book The entire book is self contained in both group theory and general relativity theory and no prior knowledge of either is assumed The subject of this book constitutes a relevant link between field theoreticians and general relativity theoreticians who usually work rather independently of each other The treatise is highly topical and of real interest to theoretical physicists general relativists and applied mathematicians It is invaluable to graduate students and research workers in quantum field theory general relativity and elementary particle theory

**Multiphysics and Multiscale Modeling** Young W. Kwon, 2015-10-05 Written to appeal to a wide field of engineers and scientists who work on multiscale and multiphysics analysis Multiphysics and Multiscale Modeling Techniques and Applications is dedicated to the many computational techniques and methods used

to develop man made systems as well as understand living systems that exist in nature Presenting a body **Concise**

**Optics** Ajawad I. Haija, M. Z. Numan, W. Larry Freeman, 2018-02-21 This introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary The authors are seasoned educators with decades of experience teaching optics Their approach is to gradually present mathematics explaining the physical concepts It covers ray tracing to the wave nature of light and introduces Maxwell's equations in an organic fashion The text then moves on to explain how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics Ajawad I Haija is a professor of physics at Indiana University of Pennsylvania M Z Numan is professor and chair of the department of physics at Indiana University of Pennsylvania W Larry Freeman is Emeritus Professor of Physics at Indiana University of Pennsylvania

**Global Attractors in Abstract Parabolic Problems** Jan W. Cholewa, Tomasz Dlotko, 2000-08-31 This book investigates the asymptotic behaviour of dynamical systems corresponding to parabolic equations

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**College Physics** Randall Dewey Knight, Brian Jones, Stuart Field, 2007 -1st year's course. Elementary physics John Guthrie Kerr, 1898

**Manifolds, Groups, Bundles, and Spacetime** R. Dale Gray, 2015-07-23 Manifolds Groups Bundles and Spacetime was written for those who are interested in modern differential geometry and its applications in physics The primary material is suitable for a graduate level course in the theory of differentiable manifolds Lie groups and fiber bundles The first two chapters are an introduction to concepts from linear algebra and tensors and can be read to establish familiarity with the notation and conventions of the text by those who are already familiar with these topics The third and fourth

chapters are a review of topics from advanced calculus and topology and are included primarily as a convenient reference

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