

## Solutions to Giancoli Recommended Problems - Chapter 23

### MisConceptual Questions

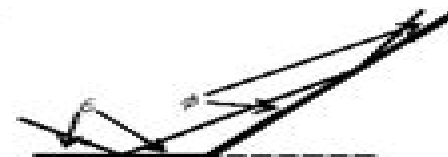
- 2.(c) Since the image from a flat mirror is behind the mirror, the image is virtual. Experience shows that when looking through a flat mirror, the image is upright.
- 6.(a) Students may note that due to refraction the fish is actually lower in the water than it appears and may answer that you should shoot below the image. However, the laser is a light beam that will also reflect at the surface, so to hit the fish you would need to aim directly at the fish.

### Solutions to Problems

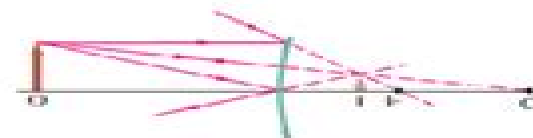
2. For a flat mirror the image is as far behind the mirror as the object is in front, so the distance from object to image is twice the distance from the object to the mirror, or  $\boxed{6.2 \text{ m}}$ .

3. The law of reflection can be applied twice. At the first reflection, the angle is  $\theta$ , and at the second reflection, the angle is  $\phi$ . Consider the triangle formed by the mirrors (at angle  $\alpha$ ) and the first reflected ray.

$$\theta + \alpha + \phi = 180^\circ \rightarrow 34^\circ + 135^\circ + \phi = 180^\circ \rightarrow \boxed{\phi = 11^\circ}$$



10. (a) From the ray diagram it is seen that the image is virtual. We estimate the image distance as about a third of the radius of curvature, or about  $\boxed{-5 \text{ cm}}$ .
- (b) Use a focal length of  $-8.0 \text{ cm}$  with the object distance of  $16.0 \text{ cm}$ .



$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f} \rightarrow d_i = \frac{d_o f}{d_o - f} = \frac{(16.0 \text{ cm})(-8.0 \text{ cm})}{16.0 \text{ cm} - (-8.0 \text{ cm})} = -5.33 \text{ cm} \approx \boxed{-5.3 \text{ cm}}$$

- (c) We find the image size from the magnification.

$$m = \frac{h_i}{h_o} = \frac{-d_i}{d_o} \rightarrow h_i = h_o \left( \frac{-d_i}{d_o} \right) = (3.0 \text{ mm}) \left( \frac{5.33 \text{ cm}}{16.0 \text{ cm}} \right) = \boxed{1.0 \text{ mm}}$$

13. Take the object distance to be  $\infty$  and use Eq. 23-2. Note that the image distance is negative since the image is behind the mirror.

$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f} \rightarrow \frac{1}{\infty} + \frac{1}{d_i} = \frac{1}{f} \rightarrow f = d_i = -19.0 \text{ cm} \rightarrow r = 2f = \boxed{-38.0 \text{ cm}}$$

Because the focal length is negative, the mirror is convex.

# Chapter 23 Solutions Giancoli

**A Gutmann**



## Chapter 23 Solutions Giancoli:

*Solutions Manual for Giancoli Physics, Principles with Applications* Keith H. Brown, 1980      *Physics for Scientists and Engineers with Modern Physics* Douglas C. Giancoli, 2008

**Key Message** This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced.

**Key Topics** INTRODUCTION MEASUREMENT ESTIMATING DESCRIBING MOTION KINEMATICS IN ONE DIMENSION KINEMATICS IN TWO OR THREE DIMENSIONS VECTORS DYNAMICS NEWTON'S LAWS OF MOTION USING NEWTON'S LAWS FRICTION CIRCULAR MOTION DRAG FORCES GRAVITATION AND NEWTON'S 6<sup>th</sup> SYNTHESIS WORK AND ENERGY CONSERVATION OF ENERGY LINEAR MOMENTUM ROTATIONAL MOTION ANGULAR MOMENTUM GENERAL ROTATION STATIC EQUILIBRIUM ELASTICITY AND FRACTURE FLUIDS OSCILLATIONS WAVE MOTION SOUND TEMPERATURE THERMAL EXPANSION AND THE IDEAL GAS LAW KINETIC THEORY OF GASES HEAT AND THE FIRST LAW OF THERMODYNAMICS SECOND LAW OF THERMODYNAMICS ELECTRIC CHARGE AND ELECTRIC FIELD GAUSS'S LAW ELECTRIC POTENTIAL CAPACITANCE DIELECTRICS ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE DC CIRCUITS MAGNETISM SOURCES OF MAGNETIC FIELD ELECTROMAGNETIC INDUCTION AND FARADAY'S LAW INDUCTANCE ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS MAXWELL'S EQUATIONS AND ELECTROMAGNETIC WAVES LIGHT REFLECTION AND REFRACTION LENSES AND OPTICAL INSTRUMENTS THE WAVE NATURE OF LIGHT INTERFERENCE DIFFRACTION AND POLARIZATION SPECIAL THEORY OF RELATIVITY EARLY QUANTUM THEORY AND MODELS OF THE ATOM QUANTUM MECHANICS QUANTUM MECHANICS OF ATOMS MOLECULES AND SOLIDS NUCLEAR PHYSICS AND RADIOACTIVITY NUCLEAR ENERGY EFFECTS AND USES OF RADIATION ELEMENTARY PARTICLES ASTROPHYSICS AND COSMOLOGY

**Market Description** This book is written for readers interested in learning the basics of physics.

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**Guide--Physics for Scientists and Engineers with Modern Physics [by] Douglas C. Giancoli, 2nd Ed** Douglas Brandt,Keith Andrew,Leonard E. Storm,1988      **Advanced Computational Electromagnetic Methods** Wenhua

Yu,Wenxing Li,Atef Elsherbeni,Yahya Rahmat-Samii,2015-03-01 This new resource covers the latest developments in computational electromagnetic methods with emphasis on cutting edge applications This book is designed to extend existing literature to the latest development in computational electromagnetic methods which are of interest to readers in both academic and industrial areas The topics include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics      Whitaker's Book List ,1991      **Recent Advancements in Musculoskeletal Regenerative Medicine**

Elizabeth Vinod,Csaba Matta ,Boopalan Ramasamy,2025-10-23 Musculoskeletal regenerative medicine is a rapidly evolving field that focuses on the repair and regeneration of tissues such as cartilage and bone which are often compromised due to injury or degenerative diseases Despite the availability of various clinical interventions these tissues have a limited capacity for self repair necessitating the development of innovative therapeutic strategies Recent advancements have been made by integrating cell based techniques with orthobiologics which include biological materials like platelet rich plasma PRP and growth factors to enhance tissue regeneration The latest studies have demonstrated the potential of combining stem cells with bioengineered scaffolds to create an optimal environment for tissue growth and integration However challenges remain in replicating the complex structure and function of native tissues and there is a pressing need for further research to refine these approaches and improve clinical outcomes This Research Topic aims to explore the most advanced protocols and procedures that can serve as tools to enhance the healing of musculoskeletal disorders The primary objective is to provide a comprehensive overview of innovative strategies that can be translated into clinical practice addressing the limitations of current therapies Key questions include how to effectively combine cell based and cell free approaches the role of orthobiologics in tissue repair and the potential of emerging stem cell therapies in treating chondral pathologies To gather further insights in the field of musculoskeletal regenerative medicine we welcome articles addressing but not limited to the following themes Cell free and cell based approaches in cartilage repair and regeneration Chondral pathologies and emerging stem cell therapies Orthobiologics in chondral pathologies Advancements in scaffolds for musculoskeletal repair Role of subchondral bone in cartilage health and repair Please note systematic reviews are not accepted by Frontiers in Cell and Developmental Biology and if in scope should be submitted to Frontiers in Bioengineering and Biotechnology Biomaterials      American Journal of Physics ,1986 Archival journal targeted toward advanced level physics and physics

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