

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 refract at the surface, so to hit the fish you would need to aim directly at the fish.

Solutions to Problems

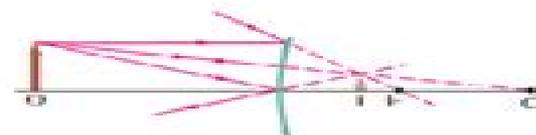
2. For a flat mirror the image is as far behind the mirror as the object is in front, so the distance from object to image is twice the distance from the object to the mirror, or $\boxed{6.2 \text{ m}}$.

3. The law of reflection can be applied twice. At the first reflection, the angle is θ , and at the second reflection, the angle is ϕ . Consider the triangle formed by the mirrors (at angle α) 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 cm with the object distance of 16.0 cm .



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

- (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 ∞ 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

Douglas C. Giancoli



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 S6 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 *Student Study Guide & Selected Solutions Manual* Frank L. H Wolfs, 2008 **Physics for Scientists and Engineers** Douglas C. Giancoli, 1988 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains Giancoli s reputation for creating carefully crafted highly accurate and precise physics texts *Physics for Scientists and Engineers* combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics The new edition also features an unrivaled suite of media and on line resources that enhance the understanding of physics **Physics for Scientists & Engineers** Douglas C. Giancoli, 2000 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains

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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*.

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