

# Physics

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## (Chapter 4) (Laws of Motion) (Exercises) (Class 11)

### Question 4.7:

A body of mass 5 kg is acted upon by two perpendicular forces 8 N and 6 N. Give the magnitude and direction of the acceleration of the body.

### Answer 4.7:

Mass of the body,  $m = 5 \text{ kg}$

The given situation can be represented as follows:

The resultant of two forces is given as:

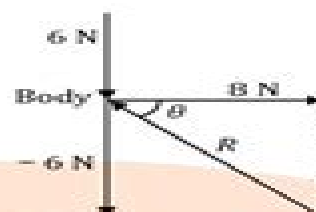
$$R = \sqrt{(8)^2 + (-6)^2} = \sqrt{64 + 36} = 10 \text{ N}$$

$\theta$  is the angle made by  $R$  with the force of 8 N

$$\therefore \theta = \tan^{-1} \left( \frac{-6}{8} \right) = -36.87^\circ$$

The - sign indicates that  $\theta$  is in the clockwise direction with respect to the force of magnitude 8 N. As per Newton's second law of motion, the acceleration ( $a$ ) of the body is given as:  $F = ma$

$$\therefore a = \frac{F}{m} = \frac{10}{5} = 2 \text{ m/s}^2$$



### Question 4.8:

The driver of a three-wheeler moving with a speed of 36 km/h sees a child standing in the middle of the road and brings his vehicle to rest in 4.0 s just in time to save the child. What is the average retarding force on the vehicle? The mass of the three-wheeler is 400 kg and the mass of the driver is 65 kg.

### Answer 4.8:

Initial speed of the three-wheeler,  $u = 36 \text{ km/h}$ , Final speed of the three-wheeler,  $v = 0 \text{ m/s}$

Time,  $t = 4 \text{ s}$

Mass of the three-wheeler,  $m = 400 \text{ kg}$  and

Mass of the driver,  $m' = 65 \text{ kg}$

Total mass of the system,  $M = 400 + 65 = 465 \text{ kg}$

By the first law of motion, the acceleration of the three-wheeler can be calculated as:

$$v = u + at$$

$$\therefore a = \frac{v - u}{t} = \frac{0 - 10}{4} = -2.5 \text{ m/s}^2$$

The negative sign indicates that the velocity of the three-wheeler is decreasing with time.

Using Newton's second law of motion, the net force acting on the three-wheeler can be calculated as:  $F = Ma = 465 \times (-2.5) = -1162.5 \text{ N}$

The negative sign indicates that the force is acting against the direction of motion of the three-wheeler.

### Question 4.9:

A rocket with a lift-off mass 20,000 kg is blasted upwards with an initial acceleration of  $5.0 \text{ m/s}^2$ . Calculate the initial thrust (force) of the blast.

### Answer 4.9:

Mass of the rocket,  $m = 20,000 \text{ kg}$  and

Initial acceleration,  $a = 5 \text{ m/s}^2$

Acceleration due to gravity,  $g = 10 \text{ m/s}^2$

Using Newton's second law of motion, the net force (thrust) acting on the rocket is given by the relation:  $F - mg = ma$

$$F = m(g + a) = 20000 \times (10 + 5) = 20000 \times 15 = 3 \times 10^5 \text{ N}$$

# Mastering Physics Solutions Chapter 4

**Jeffrey E. Bozanic**



## Mastering Physics Solutions Chapter 4:

**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 **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson sEssential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton s Laws Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static Equilibrium Part 2 Oscillations Waves and Fluids Oscillatory Motion Wave Motion Fluid Motion Thermodynamics Temperature and Heat The Thermal Behavior of Matter Heat Work and the First Law of Thermodynamics The Second Law of Thermodynamics For all readers interested in

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## **Mastering Optical Fiber Cables: Essential Insights for Cutting-Edge Transport Networks**

Ayman Elmassarawy, 2024-03-13 This book delves into the fascinating world of fiber optic cables the unsung heroes of today's information age It takes you on a comprehensive journey exploring the intricate characteristics of these cables and their transformative role in communication networks particularly within data centers and mobile technologies The book provides a comprehensive exploration of fiber optic cables with a focus on their design operation and impact on communication networks It delves into the fundamental principles of light propagation in optical fibers and covers a range of topics from the physics of light to the advantages of optical fibers in communication networks It also addresses the challenges and opportunities presented by different types of optical fibers and their applications in modern technologies Chapter 1 delves into the comprehensive exploration of optical fiber technology It covers the foundational principles of optical fiber structures and light guiding principles the evolution of the technology the superiority of fiber optic communication systems over traditional copper based systems specialty optical fibers and their unique applications and the transformative impact of optical fiber technologies on communication networks Chapter 2 delves into the physics of light propagation in optical fibers It explores the concept of light from both wave and ray perspectives gaining a deeper understanding of its behavior The chapter also covers the crucial role of the refractive index and reflection coefficient in guiding light through the fiber core as well as the intricacies of light propagation as it interacts with varying refractive indices within the fiber Chapter 3 focuses on the challenges encountered during light propagation in optical fibers It includes a comprehensive examination of the fiber optic cable structure exploring its various components The chapter also explores the intricacies of a fiber optic communication system with a particular focus on the crucial role of Total Internal Reflection in guiding light along the desired path and the concept of attenuation a primary challenge in fiber optic communication and how it affects signal strength Chapter 4 takes a closer look at the design protection and environment specific solutions employed in fiber optic cables It offers a scientific exploration of fiber optic cable design analyzing the different components and their contributions to overall functionality The chapter also provides a detailed focus on outdoor cables fiber optic connectors the intricate details of fiber optic connectors highlighting the importance of precision engineering durable materials tools and splicing equipment for fiber optic network installation and maintenance Chapter 5 introduces the essential elements of a fiber optic communication system the light sources and detectors The chapter provides a foundational overview of different fiber optic cable categories and dives into the concept of refractive index profiles and its crucial role in determining light propagation characteristics It also explores the underlying principles of light emission the role of energy bands and the fundamental differences between LEDs and lasers as well as an in depth analysis of edge emitting including their quantum efficiency and light generation mechanisms and scientific breakdown of Laser Diodes and Avalanche Photodiodes Chapter 6 delves into the realm of Dense Wave Division Multiplexing DWDM a revolutionary technology that has significantly increased the capacity of

fiber optic communication networks The chapter offers a clear introduction to the concept of WDM and its relationship with the structure of optical fibers It also explores various passive and active optical components the science behind active optical components fiber optic transmission systems and microwave over fiber optics links and the key technologies driving DWDM advancements     Mastering Rebreathers Jeffrey E. Bozanic, 2002     Calculus and Analytic Geometry Al Shenk, 1979     *No More Dreaded Mondays* Dan Miller, 2009-12-29 Is Your Job Making You Stupid Adam Smith author of *The Wealth of Nations* once wrote that a person who spends his life performing the same repetitive tasks generally becomes as stupid and ignorant as it is possible for a human creature to become Wow Now that s not a pretty picture Unfortunately much of our work today consists of those boring repetitive tasks But maybe you re one of the many who have gotten caught up in thinking work is just something you do to support your weekends Work is that necessary evil a means to an end or just a curse from God You probably take your role of providing for yourself and those depending on you seriously But you don t expect to enjoy your work you just do what has to be done Only now you re seeing that even loyalty and dependability bring no guarantees Lately you ve seen coworkers who have been let go after years of faithful service Perhaps your entire industry has been shaken by outsourcing or changing technology Maybe you re tired of the long commute and being tied to your desk when you know you could make your own hours and still be productive You may have ideas stirring that you think could create new income and time freedom But here comes another Monday Maybe feeling trapped is just the reality of the way things are Doesn t everyone dread Mondays Doesn t every responsible person just bury their dreams and passions in exchange for getting a paycheck Absolutely not All of us no matter how old we are or what kind of work we re doing can learn to bring the same excitement to our jobs that we bring to whatever we love to do on our days off I believe that each one of us can pursue work that is a reflection of our best selves a true fulfillment of our callings No More Mondays will show you that meaningful work really is within your grasp And once you ve opened the door and seen all the exciting career opportunities that await you whether you decide to revolutionize your current job or launch a new career altogether you ll find you can t go back to the old way of working From No More Mondays For everyone who dreads going to work on Monday mornings inspiring advice on how to find fulfilling work in an uncertain age Do you hate Mondays If so what s keeping you at your current job If you said a steady paycheck and the promise of a secure retirement then you re in for a big disappointment In today s volatile economy there is nothing safe about punching the clock for a job you hate As beloved talk show host and bestselling author Dan Miller reveals the only way to find true security is by following your calling and then finding or creating work that matches that calling and passion No More Mondays s practical inspirational advice speaks to people looking for guidance on how to launch a new career or business those who want to stay in their current jobs and give the old 9 to 5 model a twenty first century makeover and managers desperate to understand the way people want to work today For all of them Dan Miller s message is loud and clear If you re one of those people who dread going to work on Mondays do something about it     Basic Algebra

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