

Physics

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(Chapter 13) (Kinetic Theory) (Additional Exercises)
(Class 11)

Question 13.14:

Given below are densities of some solids and liquids. Give rough estimates of the size of their atoms:

Substance	Atomic Mass (u)	Density (10^3 Kg m^{-3})
Carbon (diamond)	12.01	2.22
Gold	197.00	19.32
Nitrogen (liquid)	14.01	1.00
Lithium	6.94	0.53
Fluorine (liquid)	19.00	1.14

[Hint: Assume the atoms to be 'tightly packed' in a solid or liquid phase, and use the known value of Avogadro's number. You should, however, not take the actual numbers you obtain for various atomic sizes too literally. Because of the crudeness of the tight packing approximation, the results only indicate that atomic sizes are in the range of a few Å].

Answer 13.14:

Substance	Radius (Å)
Carbon (diamond)	1.29
Gold	1.59
Nitrogen (liquid)	1.77
Lithium	1.73
Fluorine (liquid)	1.88

Atomic mass of a substance = M and Density of the substance = ρ

Avogadro's number = $N = 6.023 \times 10^{23}$

Volume of N number of molecules = $\frac{4}{3} \pi r^3 N$... (i)

Volume of one mole of a substance = $\frac{M}{\rho}$... (ii)

$$\frac{4}{3} \pi r^3 N = \frac{M}{\rho} \Rightarrow r = \sqrt[3]{\frac{3M}{4\pi\rho N}}$$

For gold: $M = 197.00 \times 10^{-3} \text{ kg}$ $\rho = 19.32 \times 10^3 \text{ kg m}^{-3}$

$$\therefore r = \left(\frac{3 \times 197 \times 10^{-3}}{4\pi \times 19.32 \times 10^3 \times 6.23 \times 10^{23}} \right)^{\frac{1}{3}} = 1.77 \text{ Å}$$

Hence, the radius of a liquid nitrogen atom is 1.77 Å.

For lithium: $M = 6.94 \times 10^{-3} \text{ kg}$ $\rho = 0.53 \times 10^3 \text{ kg m}^{-3}$

$$\therefore r = \left(\frac{3 \times 6.94 \times 10^{-3}}{4\pi \times 0.53 \times 10^3 \times 6.23 \times 10^{23}} \right)^{\frac{1}{3}} = 1.73 \text{ Å}$$

Hence, the radius of a lithium atom is 1.73 Å.

For liquid fluorine: $M = 19.00 \times 10^{-3} \text{ kg}$ and $\rho = 1.14 \times 10^3 \text{ kg m}^{-3}$

$$\therefore r = \left(\frac{3 \times 19 \times 10^{-3}}{4\pi \times 1.14 \times 10^3 \times 6.023 \times 10^{23}} \right)^{\frac{1}{3}} = 1.88 \text{ Å}$$

Hence, the radius of a liquid fluorine atom is 1.88 Å.

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and computational tools such as stochastic differential equations path integrals Monte Carlo methods and basic cryptology Each chapter ends with a set of carefully designed exercises enabling readers to test their comprehension

Mastering Quantum Computing Dr. Gurram Veera Raghavaiah, Mastering Quantum Computing The Race to Build the Ultimate Computer is an authoritative and forward looking guide that delves into the rapidly evolving world of quantum technologies Bridging theory and practice the book explores the foundations of quantum computing the principles of quantum cryptography and the global race among tech giants and research institutions to achieve quantum supremacy Designed for both curious readers and aspiring technologists it explains complex concepts like superposition entanglement quantum gates and quantum key distribution in accessible language The book also examines the real world challenges ethical implications and future visions including the quantum internet and post quantum security With a structured narrative and technical clarity it serves as both an educational resource and a roadmap to understanding the transformative potential of quantum computing in the digital age

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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
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 PARTICLES ASTROPHYSICS AND COSMOLOGY

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

Mastering Autodesk 3ds Max Design 2011 Mark Gerhard,Jeffrey Harper,2010-07-28 Autodesk s official guide to architectural visualization using 3ds Max Design Exclusively endorsed by Autodesk this comprehensive tutorial and reference thoroughly covers 3ds Max Design the 3D modeling animation and rendering software used for architectural visualizations It also includes essential material for students preparing for the new Certified Associate and Certified Professional exams Examples come from projects that architects designers and planners actually encounter each day while the workflows and instructions have been tested in real world applications The official guide endorsed by Autodesk with comprehensive information on using 3ds Max Design 2011 as well as achieving certification Features step by step instructions and real world projects that readers will actually encounter Covers using the 3ds Max interface working with Revit and AutoCAD files using the data and scene management tools modeling simulating lighting effects analyzing sustainable design features setting up animated walkthroughs and much more Explains how to render real world surfaces with architectural material and how to choose the renderer that creates the desired effect Mastering Autodesk 3ds Max Design 2011 covers every facet of this powerful program

Fundamentals of Physics Extended David Halliday,Robert Resnick,Jearl Walker,2010-03-08 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying

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