

# Answers

## Chapter 1 Number skills

### Are you ready?

- 1 a 2 b 10 c -14  
 2 a -8 b 3 c -10  
 3 a 7.8 b 6.74 c 10.043  
 4 a 24 b 3.29 c 56.78218  
 5 a 7.94 b 6.23 c 182  
 6 a  $2\frac{1}{2}$  b 7  $\frac{12}{5}$   
 8 a  $1\frac{1}{20}$  b  $\frac{11}{20}$  c  $1\frac{1}{5}$   
 9 a  $\frac{1}{5}$  b  $\frac{6}{11}$  c  $2\frac{1}{3}$   
 d  $1\frac{1}{2}$  e 7 f  $4\frac{3}{4}$   
 10 a 0.48 b 0.05 c 0.189  
 11 a 30 b 27

### Exercise 1A – Order of operations using whole numbers

- 1 a 16 b 0 c 9 d 9 e 12  
 f 18 g 480 h 0 i 4 j 30  
 k 12 l 18 m 26 n 68 o 12  
 p 80 q 4 r 48 s 2 t 3  
 2 a C b D c A  
 3 a 12 b 10 c 8 d 6 e 0  
 f 44 g 2 h 78 i 92 j 4  
 k 0 l 3 m 14 n 0 o 340  
 4 3  
 5 \$250,  $100 + 2 \times (100 - 25)$   
 6 a 5 b -7 c -26 d -1 e -11  
 f -13 g 10 h -3 i 4 j 36  
 k -60 l -1 m -3 n 24 o 30  
 p -15  
 7 a -2 b -11 c -11 d 13 e -3  
 f 2 g 1 h 6 i -9 j -3  
 k -4  
 8 a B b D c C  
 9 a 6 b -21 c -2 d -5 e -36  
 f -48 g -16 h -2 i -11 j -40  
 k 6 l -8 m 17 n -23 o -9  
 p 2 q 42 r 1 s 38 t 18  
 10 a B b A c D d B e A  
 11 a + b  $\times$  c + d - e +, -  
 f  $\times$ , + g  $\times$ , + h -, - i -,  $\times$   
 j  $\times$ , +,  $\times$  or  $\times$ ,  $\times$ , - k -, - l +, + m -, +  
 n -,  $\times$  or +, - o -,  $\times$ , +  
 p -, -, + or +,  $\times$ , -  
 12 95 metres 13 22°C  
 14 a A, B, D b C c C, D

### Exercise 1B – Estimation and rounding

- 1 a i 5.9 ii 5.89 iii 5.893  
 b i 67.8 ii 67.81 iii 67.806  
 c i 712.1 ii 712.14 iii 712.138  
 d i 81.1 ii 81.05 iii 81.054  
 e i 504.9 ii 504.90 iii 504.896

- 2 a 26 b 317 c 1028 d 20  
 3 a 3047.3 b 24.7 c 8.3 d 20.0  
 4 a i 600 000 ii 570 000 iii 574 000 iv 574 200  
 b i 400 000 ii 430 000 iii 431 000 iv 431 000  
 c i 30 000 ii 29 000 iii 28 600 iv 28 620  
 d i 1 000 000 ii 1 100 000 iii 1 070 000  
 iv 1 067 000  
 e i 500 000 ii 460 000 iii 459 000  
 iv 458 600  
 5 a 26 b 320 c 1000 d 20  
 6 a 0.0852 b 0.000580 c 0.00000807  
 d 0.00677 e 0.0000270 f 0.000352  
 7 a 3 b 800 c 800 d 10 e 400  
 f 100 g 1200 h 270 i 100 j 500  
 k 110 l 20 m 100 000 n 696 o 60 000  
 8 a D b D c D d B  
 9 \$9000

### Maths Quest challenge (page 13)

- 1 10 km/h  
 2 11 of digit 0, 21 of digit 1, 20 of all of the other digits

### 10 Quick Questions 1

- 1 -18 2 6  
 3 4 4 15  
 5 -21 6 10  
 7  $\times$ , +, +, or +, +,  $\times$  8 1.7456  
 9 0.006 060 10 90

### Exercise 1C – Decimals

- 1 a 9.774 b 2.377 c 39.424 d 23 e 23.1  
 f 0.6 g -7.2 h 22.976 i 360 j 10  
 k -44.95 l 13.2  
 2 a 15.22 b 4.57 c 24.96 d 33.18 e 7.26  
 3 a 0.4, 0.66, 0.71 b 0.23, 2.3, 23  
 c 0.7, 1.04, 1.32 d 1.02, 1.1, 1.22  
 e 0.06, 0.5, 0.56 f 0.323, 0.35, 0.4  
 4 a 0.24, 0.204, 0.2004 b 0.11, 0.081, 0.062  
 c 0.77, 0.707, 0.7 d 0.09, 0.082, 0.0802  
 e 1.2304, 1.23, 1.204 f 0.39, 0.3592, 0.359  
 5 a C b D c B d A  
 6 a  $\frac{9}{10}$  b  $\frac{1}{3}$  c  $\frac{4}{25}$  d  $\frac{20}{100}$  e  $\frac{36}{50}$   
 f  $\frac{3}{20}$  g  $\frac{2}{25}$  h  $1\frac{1}{2}$  i  $2\frac{21}{25}$  j  $\frac{1}{4}$   
 k  $\frac{121}{250}$  l  $\frac{561}{1000}$  m  $\frac{11}{40}$  n  $\frac{1}{16}$  o  $\frac{71}{50}$   
 7 a 72% b 31% c 89% d 57%  
 e 90% f 6% g 78.2% h 61.75%  
 i 0.94% j 135% k 160.2% l 1100%  
 m 230% n 575% o 248.5%  
 8 a B b B c D  
 9 \$80.50  
 10 a \$50 b \$46.75

### Maths Quest challenge (page 17)

- 1 36 apples 2 125 m<sup>2</sup> 3 90 s

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**SHANGYUAN REN**



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273 technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     200 technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     **150 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     **The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition** J. N. Reddy,D.K. Gartling,2010-04-06 As Computational Fluid Dynamics CFD and Computational Heat Transfer CHT evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software The Finite Element Method in Heat Transfer and Fluid Dynamics Third Edition illustrates what a user must know to ensure the optimal application of computational procedures particularly the Finite Element Method FEM to important problems associated with heat conduction incompressible viscous flows and convection heat transfer This book follows the tradition of

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**Electronic States in Crystals of Finite Size** SHANGYUAN REN, 2007-12-05 The theory of electronic states in crystals is the very basis of modern solid state physics In traditional solid state physics based on the Bloch theorem the theory of electronic states in crystals is essentially a theory of electronic states in crystals of infinite size However that any real crystal always has a finite size is a physical reality one has to face The difference between the electronic structure of a real crystal of

nite size and the electronic structure obtained based on the Bloch theorem becomes more significant as the crystal size decreases. A clear understanding of the properties of electronic states in real crystals of finite size has both theoretical and practical significance. Many years ago when the author was a student learning solid state physics at Peking University he was bothered by a feeling that the general use of the periodic boundary conditions seemed unconvincing. At least the effects of such a significant simplification should be clearly understood. Afterward he learned that many of his school mates had the same feeling. Among many solid state physics books the author found that only in the classic book *Dynamic Theory of Crystal Lattices* by Born and Huang was there a more detailed discussion on the effects of such a simplification in an Appendix.

**General Catalogue of Printed Books** British Museum. Department of Printed Books, 1969      [Nuclear Hydrogen Production Handbook](#) Xing L. Yan, Ryutaro Hino, 2016-04-19 Written by two leading researchers from the world renowned Japan Atomic Energy Agency the Nuclear Hydrogen Production Handbook is an unrivalled overview of current and future prospects for the effective production of hydrogen via nuclear energy. Combining information from scholarly analyses, industrial data, references and other resources, this handbook provides a comprehensive overview of the field.

**150 technical questions and answers for job interview**  
**Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center, 2020-06-30 The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview, Petrogav International has prepared this eBook that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 150 questions and answers for job interview and as a BONUS, web addresses to 230 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical, and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry.

*Dynamic Aspects of Explosion Phenomena* A. L. Kuhl, 1993      **Electromagnetic and Photonic Simulation for the Beginner: Finite-Difference Frequency-Domain in MATLAB®** Raymond C. Rumpf, 2022-01-31 This book teaches the finite difference frequency domain (FDFD) method from the simplest concepts to advanced three-dimensional simulations. It uses plain language and high-quality graphics to help the complete beginner grasp all the concepts quickly and visually. This single resource includes everything needed to simulate a wide variety of different electromagnetic and photonic devices. The book is filled with helpful guidance and computational wisdom that will help the reader easily simulate their own devices and more easily learn and implement other methods in computational electromagnetics. Special techniques in MATLAB are presented that will allow the reader to write their own FDFD programs. Key concepts in electromagnetics are reviewed so the reader can fully understand the calculations happening in FDFD. A powerful method for implementing the finite difference method is taught that will enable the reader to solve entirely new differential equations and sets of differential equations in mere minutes. Separate chapters are included that describe how Maxwell's equations are

approximated using finite differences and how outgoing waves can be absorbed using a perfectly matched layer absorbing boundary. With this background, a chapter describes how to calculate guided modes in waveguides and transmission lines. The effective index method is taught as a way to model many three-dimensional devices in just two dimensions. Another chapter describes how to calculate photonic band diagrams and isofrequency contours to quickly estimate the properties of periodic structures like photonic crystals. Next, a chapter presents how to analyze diffraction gratings and calculate the power coupled into each diffraction order. This book shows that many devices can be simulated in the context of a diffraction grating, including guided mode resonance filters, photonic crystals, polarizers, metamaterials, frequency selective surfaces, and metasurfaces. Plane wave sources, Gaussian beam sources, and guided mode sources are all described in detail, allowing devices to be simulated in multiple ways. An optical integrated circuit is simulated using the effective index method to build a two-dimensional model of the 3D device and then launch a guided mode source into the circuit. A chapter is included to describe how the code can be modified to easily perform parameter sweeps such as plotting reflection and transmission as a function of frequency, wavelength, angle of incidence, or a dimension of the device. The last chapter is advanced and teaches FDTD for three-dimensional devices composed of anisotropic materials. It includes simulations of a crossed grating, a doubly periodic guided mode resonance filter, a frequency selective surface, and an invisibility cloak. The chapter also includes a parameter retrieval from a left-handed metamaterial. The book includes all the MATLAB codes and detailed explanations of all programs. This will allow the reader to easily modify the codes to simulate their own ideas and devices. The author has created a website where the MATLAB codes can be downloaded, errata can be seen, and other learning resources can be accessed. This is an ideal book for both an undergraduate elective course as well as a graduate course in computational electromagnetics because it covers the background material so well and includes examples of many different types of devices that will be of interest to a very wide audience.

Hamilton and Hardy's Industrial Toxicology Raymond D. Harbison, Marie M. Bourgeois, Giffe T. Johnson, 2015-04-13 Providing a concise yet comprehensive reference on all aspects of industrial exposures and toxicants, this book aids toxicologists, industrial hygienists, and occupational physicians to investigate workplace health problems. Updates and expands coverage with new chapters covering regulatory toxicology, toxicity testing, physical hazards, high production volume HPV chemicals, and workplace drug use. Includes information on occupational and environmental sources of exposure, mammalian toxicology, industrial hygiene, medical management, and ecotoxicology. Retains a succinct chapter format that has become the hallmark for the previous editions. Distills a vast amount of information into one resource for both academics and professionals.

**Deformation and Fracture in Materials** Anoop Kumar Mukhopadhyay, Dhaneshwar Mishra, 2024-08-27 This book provides information on the basics of deformation and fracture in materials and on the current state of the art experimental and numerical theoretical methods, including data-driven approaches in the deformation and fracture study of materials. The blend of experimental test methods and numerical techniques to study

deformation and fracture in materials is discussed In addition the application of data driven approaches in predicting material performance in different types of loading and loading environments is illustrated Features Includes clear insights on deformation and fracture in materials with clear explanations of mechanics and defects relating to them Provides effective treatments of modern numerical simulation methods Explores applications of data driven approaches such as artificial intelligence machine learning and computer vision Reviews simple and basic experimental techniques to understand the concepts of deformation and fracture in materials Details modeling and simulation strategies of mechanics of materials at different scales This book is aimed at researchers and graduate students in fracture mechanics finite element methods and materials science Electronic Business: Concepts, Methodologies, Tools, and Applications Lee, In,2008-12-31 Enhances libraries worldwide through top research compilations from over 250 international authors in the field of e business

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*Questions and answers for job interview Offshore Oil & Gas Platforms* Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it is always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     **Handbook of Photosynthesis** Mohammad Pessarakli,2024-07-31 The Fourth Edition of the Handbook of Photosynthesis offers a unique and comprehensive collection of topics in the field of photosynthesis serving as an invaluable resource in this field With contributions from 95 scientists and experts from over 20 countries this volume has been divided into 13 parts each serving independently to facilitate the understanding of the material FEATURES Presents comprehensive information on photosynthesis under normal and environmental stress conditions Covers artificial photosynthesis and its future related issues Contains 25 new chapters and 18 extensively revised and expanded chapters Includes three new sections Influence of Nanoparticles on Photosynthesis Protection of Photosynthesis System and Stress Alleviation Strategies by Photosynthates Manipulations and Photosynthesis Efficiency in Plants under Multiple Abiotic and Biotic Stressors and Artificial Photosynthesis and Its Future Contains numerous tables figures illustrations and case studies to facilitate the comprehension of the material as well as thousands of index words A primary resource in its field Handbook of Photosynthesis Fourth Edition provides a comprehensive resource for researchers academics and for university courses with the information as a valuable source to plan implement and evaluate strategies for dealing with photosynthesis issues



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