

Answers to revision and practice exam questions

Module 1

Answers to revision questions

Revision questions 1 (page 34)

- 1 b i $\text{kg m}^2 \text{s}^{-2}$ ii $\text{m}^2 \text{s}^{-2} \text{K}^{-1}$
 3 $\text{kg m}^2 \text{s}^{-1}$
 4 $\text{kg m}^2 \text{s}^{-1}$
 10 Horizontal component = 4.3 N,
 vertical component = 2.5 N
 11 a 14 N b 2 N c 10 N d 12.2 N
 15 0.9%
 16 $R = 12 \pm 3 \Omega$
 17 i 3.3% ii 6.6%
 18 $0.43 \pm 0.01 \text{ cm}$
 21 a 14 m s^{-1} b 0.65 m s^{-2} c Approx. 350 m
 22 a -5 m s^{-2}
 23 a 9 m s^{-1} b 24.75 m c 13.4 s
 24 a 9.5 m b 6.2 m s^{-1} c 1.53 s d 11.5 m
 25 i 4.3 m s^{-1} ii 2.5 m s^{-1} v 0.32 m vi 0.255 s
 vii 0.51 s viii 2.19 m
 ix 4.77 m s^{-1} 25.6° below the horizontal
 26 b 158 N c 3.68 m s^{-2} d 188 N

Revision questions 2 (page 46)

- 1 b 0.23 N c 4.6 m s^{-2}
 3 c Kinetic energy = 1.875 J, momentum = 1.5 kg m s^{-1}
 4 a Approx. 3 N s c Approx. 25 m s^{-2}
 d Approx. 50 m s^{-2}
 6 c 3 m s^{-1} in the same direction as the 4 kg mass
 9 a 785 N b 785 N
 c $0.122 \text{ N m}^{-2} \text{ s}^2$ d 7.11 m s^{-2}
 10 c i 18.6 N ii 25.8 m s^{-1} iii 9.4 m s^{-2}
 11 a 37.2 N b Approx. $\frac{1}{2}(0.337)$
 12 $T_1 = 5.6 \text{ N}$ $T_2 = 3.9 \text{ N}$
 15 b 890 N c 170 N
 17 19.4 N at 64.6° to the horizontal
 18 a $2.5 \times 10^4 \text{ J}$ b $1.23 \times 10^3 \text{ J}$
 c $6.0 \times 10^4 \text{ J}$ d 15.9 m s^{-1}

Revision questions 3 (page 58)

- 2 b i 15 360 J ii 14 126 J
 iii 1234 J iv 206 N
 5 b i 0.52 rad ii 2.44 rad
 c i 180° ii 90°
 7 a 2.4 rad s^{-1} b 2.62 s
 c 2.88 m s^{-2} d 2.45 N
 8 44.4 N
 9 a 16.4 N b 12.4 N
 10 a 41.9 rad s^{-1} b $1.05 \times 10^2 \text{ m s}^{-2}$
 c 1.02 N d 1.02 N
 11 a 1.52 Hz
 12 b ii $4.23 \times 10^2 \text{ m}$
 14 a $3.68 \times 10^4 \text{ N}$ b 8.77 m s^{-2}
 c $7.70 \times 10^3 \text{ m s}^{-1}$
 15 $1.31 \times 10^{-4} \text{ rad s}^{-1}$
 16 i $1.99 \times 10^{26} \text{ N}$ ii $2.71 \times 10^{-13} \text{ m s}^{-2}$
 v $-2.71 \times 10^{-13} \text{ N kg}^{-1}$

Module 1 practice exam questions (page 60)

- 1 C 6 A
 2 C 7 B
 3 B 8 C
 4 D 9 B
 5 C 10 D
 11 c i 1.5 ± 0.02 ii 4.1 ± 0.1
 iii $\{0.845 \pm 0.04\} \text{ g cm}^{-3}$
 12 a $6.12 \times 10^3 \text{ J}$ b $4.17 \times 10^3 \text{ J}$
 c 15.6 m s^{-1} , $F = 26.7 \text{ N}$
 13 b ii $1.84 \times 10^3 \text{ N}$ iii $8.64 \times 10^3 \text{ N}$
 iv 1.29 m s^{-2} v 126 m
 vi $1.46 \times 10^3 \text{ J}$ vii $3.78 \times 10^3 \text{ J}$
 14 c i 2.02 s ii 90.9 m
 iii 49.2 m s^{-1} at 24° below the horizontal
 16 b 9.74 N kg^{-1}
 c ii 0.22 N kg^{-1} iii $3.08 \times 10^3 \text{ m s}^{-1}$
 iv 0.22 m s^{-2}
 18 c i 4.4 m s^{-1} ii 19.2 N

Realtime Physics Module 1 Answers

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Shanmugasundaram**

Realtime Physics Module 1 Answers:

RealTime Physics: Active Learning Laboratories, Module 1 David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study

RealTime Physics Active Learning Laboratories, Module 4 David R. Sokoloff, 2012-01-03 RealTime Physics is a series of introductory laboratory modules that use computer data acquisition tools microcomputer based lab or MBL tools to help students develop important physics concepts while acquiring vital laboratory skills Besides data acquisition computers are used for basic mathematical modeling data analysis and simulations There are 4 RealTime Physics modules Module 1 Mechanics Module 2 Heat and Thermodynamics Module 3 Electricity and Magnetism and Module 4 Light and Optics

Handbook of Research on Science Education, Volume II Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community

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Top Physics Grades for You Aqa Mod Keith Johnson, 2005 These full colour Revision Guides provide board specific support for GCSE Science and are designed specifically to raise standards

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Subject Guide to Books in Print, 1991

The Handy Science Answer Book James Bobick, Naomi E. Balaban, 2019-08-01 Informative easy to use guide to everyday science questions concepts and fundamentals

celebrates its twenty fifth year and over one million copies sold Science is everywhere and it affects everything DNA and CRISPR Artificial sweeteners Sea level changes caused by melting glaciers Gravitational waves Bees in a colony The human body Microplastics The largest active volcano Designer dog breeds Molecules The length of the Grand Canyon Viruses and retroviruses The weight of a cloud Forces motion energy and inertia It can often seem complex and complicated but it need not be so difficult to understand The thoroughly updated and completely revised fifth edition of The Handy Science Answer Book makes science and its impact on the world fun and easy to understand Clear concise and straightforward this informative primer covers hundreds of intriguing topics from the basics of math physics and chemistry to the discoveries being made about the human body stars outer space rivers mountains and our entire planet It covers plants animals computers planes trains and cars This friendly resource answers more than 1 600 of the most frequently asked most interesting and most unusual science questions including When was a symbol for the concept of zero first used How large is a google Why do golf balls have dimples What is a chemical bond What is a light year What was the grand finale of the Cassini mission How many exoplanets have been discovered Where is the deepest cave in the United States How long is the Grand Canyon What is the difference between weather and climate What causes a red tide What is cell cloning and how is it used in scientific research How did humans evolve Do pine trees keep their needles forever What is the most abundant group of organisms How do insects survive the winter in cold climates Which animals drink seawater Why do geese fly in formation What is FrogWatch Why do cats eyes shine in the dark Which industries release the most toxic chemicals What causes most wildfires in the United States Which woman received the Nobel Prize in two different fields two different years What is the difference between science and technology For anyone wanting to know how the universe Earth plants animals and human beings work and fit into our world this informative book also includes a helpful bibliography and an extensive index adding to its usefulness It will help anyone s science questions

Automation 2022: New Solutions and Technologies for Automation, Robotics and Measurement Techniques Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2022-04-15 This book presents the unique result of discussion among interdisciplinary specialists facing recent industrial and economic challenges It contains papers authored by both scientists and practitioners focused on an interdisciplinary approach to developing measuring techniques robotic and mechatronic systems industrial automation numerical modelling and simulation and application of artificial intelligence techniques required by the transformation leading to Industry 4 0 We strongly believe that the solutions and guidelines presented in this book will be useful to both researchers and engineers facing problems associated with developing cyber physical systems for global development , Proceedings of the 2024 International Conference on Digital Economy and Marxist Economics (ICDEME 2024) Yongjun Guan,Yan Duan,Tao Wang,Chuan Liang,2024-12-31 This is an open access book 2024 International Conference on Digital Economy and Marxist Economics will be held grandly in Baise China from October 25 to 27 2024 2024 International Conference on Digital Economy and Marxist

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Conference Record of the Eighth Conference on Real-Time Computer Applications in Nuclear, Particle and Plasma Physics, Vancouver, June 8-11, 1993 David Axen, Renée Poutissou, TRIUMF., 1993

Product Lifecycle Management to Support Industry 4.0 Paolo Chiabert, Abdelaziz Bouras, Frédéric Noël, José Ríos, 2018-12-08. This book constitutes the refereed post-conference proceedings of the 15th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2018 held in Turin, Spain, in July 2018. The 72 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following topical sections: building information modeling; collaborative environments and new product development; PLM for digital factories and cyber-physical systems; ontologies and data models; education in the field of industry 4.0; product service systems and smart products; lean organization for industry 4.0; knowledge management and information sharing; PLM infrastructure and implementation; PLM maturity; implementation and adoption; 3D printing and additive manufacturing; and modular design and products and configuration and change.

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