

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

**Yongjun Guan, Yan Duan, Tao
Wang, Chuan Liang**



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

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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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