

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 711 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 $632 \times 10^3 \text{ J}$ 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

**Roman Szewczyk, Cezary
Zieliński, Małgorzata Kaliczyńska**

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 Economics ICDEME2024 is organized to investigate the intersections between contemporary digital economic practices and the theoretical frameworks established by Marxist economics In an era where digital innovation is reshaping traditional economic structures it becomes increasingly pertinent to revisit and re evaluate classical economic theories to understand these transformations With rapid advancements in technology and the rise of the digital economy there are extensive opportunities and challenges that need thoughtful analysis and discourse This symposium serves as a platform for scholars researchers and practitioners to engage in meaningful discussions that bridge classical economic theories with the realities of modern digital economies The primary aim of this symposium is to foster a comprehensive understanding of how Marxist economic principles can be applied to analyze and critique contemporary trends in the digital economy The symposium seeks to promote interdisciplinary research stimulate academic discussions and offer new perspectives on the dynamics of digital capitalism By bringing together experts from various fields the conference aims to generate actionable insights that address both theoretical inquiries and practical implications Additionally it aspires to create a collaborative environment where participants can share research findings exchange ideas and develop strategies to leverage Marxist economic theories in understanding the complexities of our digital age The 2024 symposium will explore a range of research themes designed to delve deep into the interplay between digital and Marxist economics Key themes include Digital Labor and Capital which examines how digital platforms alter labor relations and capital accumulation processes Algorithmic Governance and Regulation focusing on the role of algorithms in shaping economic behavior and the need for regulatory frameworks Another crucial theme is Data Commodification and Surveillance which scrutinizes how data is transformed into a commodity and its implications for privacy and surveillance Additionally Marxist Theories in Digital Age invites scholars to reinterpret classical Marxist texts in the context of modern digital economies By concentrating on these pertinent themes the symposium aims to foster a nuanced understanding of digital economic phenomena through the lens of Marxist economics

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

Data-driven Modeling and Optimization: Applications to Social Computing Chao Gao, Zhanwei Du, Lin Wang, Peican Zhu, 2022-09-14

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

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