

QUESTION 1

- 1.1 A ✓✓
1.2 D ✓✓
1.3 C ✓✓
1.4 B ✓✓
1.5 C ✓✓
1.6 B ✓✓
1.7 C ✓✓

[14]

QUESTION 2

- 2.1 If a net force acts on a body the body accelerates in the direction of the net force. ✓✓
The acceleration is directly proportional to the net force and inversely proportional to the mass of the body. ✓✓

2.2



- ✓ (force)
✓ (any 2 correct)
✓ (any 2 correct) (12)

2.3 $F_g = mg$ ✓

$$= (0,0470 \text{ kg})(9,81 \text{ m/s}^2)$$

$$= 0,461 \text{ N} \quad (10)$$

2.4 $F_{\text{net}} = ma$ ✓

$$T + (4,2) + (0,461) = ma$$

$$(10) - (2)(9,81 \text{ m/s}^2) = 2a$$

$$a = -0,8 \text{ m/s}^2$$

$$F_{\text{net}} = ma$$

$$F_{\text{net}} + (4,2) + (0,461) + (0,7) = ma$$

$$25,8 - 20 - (2)(9,81 \text{ m/s}^2) - T = 4a$$

$$5,8 - T = 4a$$

$$2T - 25,8 = 5,8 - T \quad \text{✓ (Manipulation and equating)}$$

$$T = 24,6 \text{ N} \quad \text{✓} \quad (16)$$

[16]

QUESTION 3

- 3.1 In an isolated system the total linear momentum remains constant in both magnitude and direction. ✓✓ (1)

3.2 sum of p before = sum of p after

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$(140)(10) + (150)(0) = (140 + 150)(4,5)$$

$$v_2 = 5,74 \text{ m/s} \quad \text{✓ (1)}$$

3.3 $\Delta p = \Delta p$ ✓

$$\Delta p = m_1 v_1' - m_1 v_1$$

$$= (140)(4,5) - (140)(0)$$

$$= 630 \text{ kg} \cdot \text{m/s} \quad \text{✓ (1)}$$

[1]

QUESTION 4

- 4.1 The work done by a conservative force is not path dependent. ✓✓ (2)
4.2 Force of gravity ✓✓ (1)
4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓ (1)
The work done on an object by the net force is equal to its change in kinetic energy.

4.4 $W_{\text{net}} = \Delta K$ ✓

$$W_{\text{spring}} + W_{\text{grav}} + W_{\text{net}} = \Delta K = \frac{1}{2}mv^2 - \frac{1}{2}mv^2$$

$$277 \text{ J} + 0 + F_{\text{spring}} \Delta x_{\text{spring}} + F_{\text{net}} \Delta x_{\text{net}} = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(0)$$

$$277 \text{ J} + 0 + (2000)(1,0) + \sin(30^\circ)(\Delta x)(\cos 180^\circ) + 2545(\Delta x)(\cos 180^\circ) = 15000 \text{ J}$$

$$277 \text{ J} + 0 - 14700 \Delta x - 2545 \Delta x = 15000$$

$$\Delta x = 0,5 \text{ m} \quad \text{✓ (1)}$$

4.5 $F = \frac{W}{\Delta x} = \frac{277 \text{ J}}{0,5 \text{ m}} = 554 \text{ N} \quad \text{✓ (2)}$

[14]

QUESTION 5

5.1



✓ (It is smaller in length than the original) (1)

5.1.1 $v_x = v_0 \cos \theta$ ✓ or $\Delta x = v \cos \theta \cdot \frac{1}{2}at^2$ ✓ or $v \cos \theta = v \cos \theta \cdot \frac{1}{2}at^2$ ✓

$$0,12,0 = 0 + a(2)$$

$$a = -0,6 \text{ m/s}^2 \quad \text{✓ (1)}$$

5.1.2 $\Delta y = v \sin \theta \cdot t - \frac{1}{2}at^2$ ✓

$$-0,12,0 = 0,12,0 \sin \theta - \frac{1}{2}(-0,6)t^2$$

$$4,8 \sin^2 \theta - 0,12,0 \sin \theta - 0,12,0 = 0$$

$$\Delta t = 24,87 \text{ s} \quad \text{✓}$$

$$\Delta x_{\text{new}} = 24,87 \text{ s} \cdot 0 = 24,87 \text{ s} \quad \text{✓ (1) - for adding 4 s} \quad (14)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 24,87 s) (10)

[14]

QUESTION 6

6.1 The Doppler effect ✓✓ (1)

6.2 $\Delta f = \frac{v}{\lambda}$ The observed frequency is higher than the actual frequency. ✓✓ (1)

$$\Delta f = \frac{v}{\lambda} \cdot \Delta \lambda$$

$$\Delta f = \frac{v}{\lambda} \cdot \Delta \lambda$$

$$140 \text{ ✓} = \frac{340}{\lambda} \cdot 0,44 \text{ ✓}$$

$$140 \lambda = 340 \cdot 0,44 = 149,6$$

$$\lambda = 1,07 \text{ m}$$

$$v = 340 \text{ m/s} \quad \text{✓ (1)}$$

[1]

QUESTION 7

7.1 The electrostatic force between two charges is directly proportional to the product of the charges and inversely proportional to the squared distance between the charges. ✓✓ (2)

$$F = \frac{k q_1 q_2}{r^2}$$

$$= \frac{9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2 \cdot (2 \times 10^{-6} \text{ C})^2}{(0,02 \text{ m})^2}$$

$$= 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$7.1.1 F = \frac{k q_1 q_2}{r^2}$$

$$F = \frac{9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2 \cdot (2 \times 10^{-6} \text{ C})^2}{(0,02 \text{ m})^2}$$

$$= 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$7.1.2 F = \frac{k q_1 q_2}{r^2}$$

$$= 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$= 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$7.1.3 F_{\text{net}} = 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$F_{\text{net}} = 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

$$F_{\text{net}} = 9 \times 10^9 \text{ N} \cdot \text{C}^2 \quad \text{✓ (1)}$$

[10]

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Rolf Drechsler, Ulrich Kühne



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Recent Developments in Operator Theory, Mathematical Physics and Complex Analysis Daniel Alpay, Jussi Behrndt, Fabrizio Colombo, Irene Sabadini, Daniele C. Struppa, 2023-04-11 This book features a collection of papers by plenary semi plenary and invited contributors at IWOTA2021 held at Chapman University in hybrid format in August 2021 The topics span areas of current research in operator theory mathematical physics and complex analysis **Formal Modeling and Verification of Cyber-Physical Systems** Rolf Drechsler, Ulrich Kühne, 2015-06-05 This book presents the lecture notes of the 1st Summer School on Methods and Tools for the Design of Digital Systems 2015 held in Bremen Germany The topic of the summer school was devoted to modeling and verification of cyber physical systems This covers several aspects of the field including hybrid systems and model checking as well as applications in robotics and aerospace systems The main chapters have been written by leading scientists who present their field of research each providing references to introductory material as well as latest scientific advances and future research directions This is complemented by short papers submitted by the participating PhD students *The Maudsley Practice Guidelines for Physical Health Conditions in Psychiatry* David M. Taylor, Fiona Gaughran, Toby Pillinger, 2020-12-14 Learn to improve your assessment investigation and management of physical health conditions in people with severe mental illness The Maudsley Practice Guidelines for Physical Health Conditions in Psychiatry offers psychiatric and general practitioners an evidence based and practical guide for the appropriate assessment investigation and management of common physical health conditions seen in people with severe mental illness Written by a renowned team of respected experts in medicine surgery pharmacy dietetics physiotherapy and psychiatry the book bridges the gap between psychiatric and physical health services for the severely mentally ill The Maudsley Practice Guidelines for Physical Health Conditions in Psychiatry also provides practitioners with expert guidance on making effective referrals to other medical and surgical subspecialties telling readers what information subspecialties would expect to receive Its use will improve the quality of clinical care received by mentally ill patients and by promoting a holistic approach to treatment that considers both body and mind will enhance the therapeutic relationship between patient and practitioner The Maudsley Practice Guidelines for Physical Health Conditions in Psychiatry covers the following Guidance on assessment and management of well over a hundred different medical and surgical presentations commonly seen in people with serious mental illness Management of physical health emergencies in a psychiatric setting Evidence based approaches to management of physical side effects of psychiatric medications Advice on approaches to promote a healthy lifestyle in people with serious mental illness such as smoking cessation and changes to diet and physical activity Perfect for both psychiatrists and general practitioners who wish to improve the quality of care they provide to people with serious mental illness The Maudsley Practice Guidelines for Physical Health Conditions in Psychiatry will be of use to anyone setting out to navigate the divide between the treatment of psychiatric and physical health conditions *Exercise in*

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Sundaravadivazhagan, S Poonkuntran, Thendral Puyalnithi, 2024-05-15 Deep learning can provide more accurate results compared to machine learning It uses layered algorithmic architecture to analyze data It produces more accurate results since learning from previous results enhances its ability The multi layered nature of deep learning systems has the potential to classify subtle abnormalities in medical images clustering patients with similar characteristics into risk based cohorts or highlighting relationships between symptoms and outcomes within vast quantities of unstructured data Exploring this potential *Deep Learning for Smart Healthcare Trends Challenges and Applications* is a reference work for researchers and academicians who are seeking new ways to apply deep learning algorithms in healthcare including medical imaging and healthcare data analytics It covers how deep learning can analyze a patient's medical history efficiently to aid in recommending drugs and dosages It discusses how deep learning can be applied to CT scans MRI scans and ECGs to diagnose diseases Other deep learning applications explored are extending the scope of patient record management pain

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Physical and Data-Link Security Techniques for Future Communication Systems Marco Baldi,Stefano Tomasin,2015-09-24 This book focuses on techniques that can be applied at the physical and data link layers of communication systems in order to secure transmissions against eavesdroppers Topics ranging from information theory based security to coding for security and cryptography are discussed with presentation of cutting edge research and innovative results from leading researchers The characteristic feature of all the contributions is their relevance for practical embodiments detailed consideration is given to applications of security principles to a variety of widely used communication techniques such as multiantenna systems ultra wide band communication systems power line communications and quantum key distribution techniques A further distinctive aspect is the attention paid to both unconditional and computational security techniques providing a bridge between two usually distinct worlds The book comprises extended versions of contributions delivered at the Workshop on Communication Security held in Ancona Italy in September 2014 within the framework of the research project Enhancing Communication Security by Cross layer Physical and Data link Techniques funded by the Italian Ministry of Education Universities and Research [The Shadow of Black Holes](#) Arne Grenzebach,2016-05-07 This book introduces an analytic method to describe the shadow of black holes As an introduction it presents a survey of the attempts to observe the shadow of galactic black holes Based on a detailed discussion of the Pleba ski Demia ski class of space times the book derives analytical formulas for the photon regions and for the boundary curve of the shadow as seen by an observer in the domain of outer communication It also analyzes how the shadow depends on the motion of the observer For all cases the photon regions and shadows are visualized for various values of the parameters Finally it considers how the analytical formulas can be used for calculating the horizontal and vertical angular diameters of the shadow and estimates values for the

black holes at the centers of our Galaxy near Sgr A and of the neighboring galaxy M87 Proceedings, 2019, MaxEnt 2019
Udo von Toussaint, Roland Preuss, 2020-03-19 This Proceedings book presents papers from the 39th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering MaxEnt 2019 The workshop took place at the Max Planck Institute for Plasma Physics in Garching near Munich Germany from 30 June to 5 July 2019 and invited contributions on all aspects of probabilistic inference including novel techniques applications and work that sheds new light on the foundations of inference Addressed are inverse and uncertainty quantification UQ and problems arising from a large variety of applications such as earth science astrophysics material and plasma science imaging in geophysics and medicine nondestructive testing density estimation remote sensing Gaussian process GP regression optimal experimental design data assimilation and data mining

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