

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 $F_{\text{net}} = ma$ ✓

$$T + (4,2) + (0,46) = ma$$

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

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

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

$$F_{\text{net}} + (4,2) + (0,46) + (0,7) = ma$$

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

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

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

$$T = 24,6 \text{ N} \quad \text{✓}$$

(4)

[14]

QUESTION 3

- 3.1 In an isolated system the total linear momentum remains constant in both magnitude and direction. ✓✓ (2)

3.2 sum of p before = sum of p after

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

$$(40)(30) + (50)(20) = (40)(40) + (50)(v_2')$$

$$v_2 = 24 \text{ m/s} \quad \text{✓ (4)}$$

3.3 $\Delta p = \Delta p$ ✓

$$\Delta p = \Delta p - \Delta p$$

$$= (140)(4,5) - (150)(20)$$

$$= 64 \text{ N.s} \quad \text{✓ (4)}$$

[4]

QUESTION 4

4.1 The work done by a conservative force is not path dependent. ✓✓ (2)

4.2 Force of gravity ✓✓ (2)

4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓ (2)

The work done on an object by the net force is equal to its change in kinetic energy.

4.4 $W_{\text{net}} = \Delta K$ ✓

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

$$277 \text{ J} + F_{\text{spring}} \Delta x + F_{\text{friction}} \Delta x = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(20)^2$$

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

$$277 \text{ J} + 2000 - 14700(\Delta x) - 2545(\Delta x) = 249 \text{ J}$$

$$\Delta x = 0,16 \text{ m} \quad \text{✓ (4)}$$

4.5 $F = \frac{\Delta p}{\Delta t} = \frac{20 \text{ kg} \cdot 10 \text{ m/s}}{0,1 \text{ s}} = 2000 \text{ N} \quad \text{✓ (2)}$

[14]

QUESTION 5

5.1



✓ (F_g smaller in length than F_string) (2)

5.1.1 $v = u + at$ ✓ or $\Delta v = v_{\text{fin}} - \frac{1}{2}at^2$ or $v_{\text{fin}} = v_{\text{ini}} + \Delta v$ ✓

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

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

5.1.2 $\Delta y = v_{\text{fin}} t + \frac{1}{2}at^2$ ✓

$$-0,12,0 = 0,12,0(2) + \frac{1}{2}(-9,81)t^2$$

$$-0,12,0 - 0,24,0 = -0,4905t^2$$

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

$$\Delta v_{\text{net}} = 24,87 \text{ s} + 4 = 28,87 \text{ s} \quad \text{✓ (4 - for adding 4 s)} (4)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 28,87 s) (10)

[14]

QUESTION 6

6.1 The Doppler effect ✓✓ (2)

6.2 $\Delta f = \frac{v}{\lambda}$ The observed frequency is higher than the actual frequency. ✓✓ (2)

$$\Delta f = \frac{v}{\lambda} - \frac{v}{\lambda_0}$$

$$\Delta f = \frac{v}{\lambda} - \frac{v}{\lambda_0}$$

$$940 \quad \text{✓} = \frac{340}{\lambda} - \frac{340}{0,44,3}$$

$$940 = 769,3v - 1435,45$$

$$9,3v = 2154,45$$

$$v = 231,6 \text{ m/s} \quad \text{✓ (4)}$$

[4]

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)

$$F = \frac{kq_1q_2}{r^2}$$

$$= \frac{(9 \times 10^9)(0,001)(0,002)}{(0,002)^2}$$

$$= 4,5 \times 10^4 \text{ N} \quad \text{✓ (4) (-)}$$

7.1.1 $F = \frac{kq_1q_2}{r^2}$ ✓

$$F_g = \frac{kq_1q_2}{r^2} = \frac{(9 \times 10^9)(0,001)(0,002)}{(0,002)^2}$$

$$= 45000 \text{ N.C}^{-1} \quad \text{✓ (4) (-)}$$

7.1.2 $F_g = \frac{kq_1q_2}{r^2} = \frac{(9 \times 10^9)(0,001)(0,002)}{(0,002)^2}$ ✓

$$= 45000 \text{ N.C}^{-1} \quad \text{✓ (4) (-)}$$

7.1.3 $F_{\text{net}} = 45000 \text{ N} + 45000 \text{ N}$ ✓

$$F_{\text{net}} = 45000 \text{ N.C}^{-1} \quad \text{✓ (4) (-)}$$

✓

[10]

Ana Papers 2013 Physic Grade 1

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Ana Papers 2013 Physic Grade 1:

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 *Deep Learning for*

Smart Healthcare K. Murugeswari, B. 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 assessment new drug design and managing the clinical trial process Bringing together a wide range of research domains this book can help to develop breakthrough applications for improving healthcare management and patient outcomes

Exercise in Pediatric Medicine Tim Takken, Brian W. Timmons, 2020-12-04 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Climate Change 2013 - The Physical Science Basis Intergovernmental Panel on Climate Change (IPCC), 2014-03-24 This Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard scientific reference for all those concerned with climate change and its consequences including students and researchers in environmental science meteorology climatology biology ecology and atmospheric chemistry It provides invaluable material for decision makers and stakeholders at international national and local level in government businesses and NGOs This volume provides An authoritative and unbiased overview of the physical science basis of climate change A more extensive assessment of changes observed throughout the climate system than ever before New dedicated chapters on sea level change biogeochemical cycles clouds and aerosols and regional climate phenomena Extensive coverage of model projections both near term and long term climate projections A detailed assessment of climate change observations modelling and attribution for every continent A new comprehensive atlas of global and regional climate projections for 35 regions of the world

Diabetes and Exercise Jane E. B. Reusch, MD, Judith G. Regensteiner, PhD, MA, BA, Kerry J. Stewart, Ed.D., FAHA, MAACVPR, FACSM, Aristidis Veves, MD, DSc, 2017-09-27 Now in a fully revised and updated second edition written and

editing by leading experts in the field this comprehensive and practical text brings together the latest guidelines and recommendations on the benefits of exercise and physical activity in the management of diabetes and its complications providing both the researcher and practitioner with evidence based information that is both theoretically and clinically useful Part one sets the stage by discussing the epidemiology and prevention of type 2 diabetes and the metabolic syndrome The physiological effects of exercise in type 2 diabetes are covered in part two covering molecular mechanisms adiposity sex differences cardiovascular consequences and musculoskeletal changes Part three addresses practical issues that are essential in order to safely engage patients with diabetes in exercise related research protocols and clinical programs including DPP and LOOK Ahead nutrition behavioral changes and guidelines for exercise testing The final section examines special considerations for exercise in people with diabetes such as those with neuropathy cardiac issues and peripheral artery disease Taken together Diabetes and Exercise Second Edition brings together the latest information and thought leaders in the field to create a unique and useful text for all clinicians researchers and therapists working to integrate physical activity into their management strategies for the increasing number of diabetic patients **South African**

national bibliography ,1999 Classified list with author and title index *Random Growth Models* Michael Damron,Firas Rassoul-Agha,Timo Seppäläinen,2018-09-27 The study of random growth models began in probability theory about 50 years ago and today this area occupies a central place in the subject The considerable challenges posed by these models have spurred the development of innovative probability theory and opened up connections with several other parts of mathematics such as partial differential equations integrable systems and combinatorics These models also have applications to fields such as computer science biology and physics This volume is based on lectures delivered at the 2017 AMS Short Course Random Growth Models held January 2 3 2017 in Atlanta GA The articles in this book give an introduction to the most studied models namely first and last passage percolation the Eden model of cell growth and particle systems focusing on the main research questions and leading up to the celebrated Kardar Parisi Zhang equation Topics covered include asymptotic properties of infection times limiting shape results fluctuation bounds and geometrical properties of geodesics which are optimal paths for growth *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

The Oxford Handbook of the Economics of Networks Yann Bramoullé, Andrea Galeotti, Brian W. Rogers, 2016 The Oxford Handbook of the Economics of Networks represents the frontier of research into how and why networks they form how they influence behavior how they help govern outcomes in an interactive world and how they shape collective decision making opinion formation and diffusion dynamics From a methodological perspective the contributors to this volume devote attention to theory field experiments laboratory experiments and econometrics Theoretical work in network formation games played on networks repeated games and the interaction between linking and behavior is synthesized A number of chapters are devoted to studying social process mediated by networks Topics here include opinion formation diffusion of information and disease and learning There are also chapters devoted to financial contagion and systemic risk motivated in part by the recent financial crises Another section discusses communities with applications including social trust favor exchange and social collateral the importance of communities for migration patterns and the role that networks and communities play in the labor market A prominent role of networks from an economic perspective is that they mediate trade Several chapters cover bilateral trade in networks

strategic intermediation and the role of networks in international trade Contributions discuss as well the role of networks for organizations On the one hand one chapter discusses the role of networks for the performance of organizations while two other chapters discuss managing networks of consumers and pricing in the presence of network based spillovers Finally the authors discuss the internet as a network with attention to the issue of net neutrality International Conference on Reliable Systems Engineering (ICoRSE) - 2023 Daniela Doina Cioboată,2023-09-04 This book comprises state of the art research results in the field of mechatronics and other closely related areas and that will be presented on occasion of the third International Conference of Reliable Systems Engineering ICoRSE 2023 that will take place in Bucharest Romania between 07 08 September 2023 The first two ICoRSE editions brought together professors Ph D students and researchers in Europe North America and Asia in countries such as England Albania Austria Bulgaria Canada Czech Republic Germany France Italy Portugal Turkey Ukraine Uzbekistan and Vietnam In this year s edition of the conference we have benefitted from the inclusion in the scientific committee of the conference of professors in all of these countries and we cover a wide variety of topics such as theoretical and applied mechanics cyber physical systems robotics smart bio medical and bio mechatronic systems new and intelligent materials and structures modelling and simulation in mechanics and mechatronics smart mechatronic production and control system optics control systems big data modelling micro and nanotechnology automation manufacturing optimization and other Since the book s chapters represent contributions of scholars who work in both state funded institutions and in the business environment they reflect a clear picture of the novelties attained in the leading edge sciences that are in the scope of the conference It is our belief that the book is useful to both students and researchers in all areas of engineering who will each find at least one topic worthy of their interest in this work **Grieve's Modern Musculoskeletal Physiotherapy** Gwendolen Jull,Ann Moore,Deborah Falla,Jeremy Lewis,Christopher McCarthy,Michele Sterling,2015-05-11 Since the third edition of Grieve s Modern Manual Therapy was published in 2005 the original concepts of manipulative therapy have grown to embrace new research generated knowledge Expansions in practice have adopted new evidence which include consideration of psychological or social moderators The original manual therapy or manipulative therapy approaches have transformed into musculoskeletal physiotherapy and this is recognized by the change in title for the new edition Grieve s Modern Musculoskeletal Physiotherapy Grieve s Modern Musculoskeletal Physiotherapy continues to bring together the latest state of the art research from both clinical practice and the related basic sciences which is most relevant to practitioners The topics addressed and the contributing authors reflect the best and most clinically relevant contemporary work within the field of musculoskeletal physiotherapy With this as its foundation and a new six strong editorial team at its helm the fourth edition now expands its focus from the vertebral column to the entire musculoskeletal system For the first time both the spine and extremities are covered capturing the key advances in science and practices relevant to musculoskeletal physiotherapy The book is divided into five parts containing multiple sections and

chapters The first part looks at advances in the sciences underpinning musculoskeletal physiotherapy practice Here there is commentary on topics such as movement the interaction between pain and motor control as well as neuromuscular adaptations to exercise Applied anatomical structure is covered in addition to the challenges of lifestyle and ageing A new section highlights the important area of measurement and presents the scope of current and emerging measurements for investigating central and peripheral aspects relating to pain function and morphological change Another section discusses some contemporary research approaches such as quantitative and qualitative methods as well as translational research Part III contains sections on the principles of and broader aspects of management which are applicable to musculoskeletal disorders of both the spine and periphery Topics include models for management prescription communication and pain management and contemporary principles of management for the articular nervous and sensorimotor systems In recognition of the patient centred and inclusive nature of contemporary musculoskeletal practice there is also discussion about how physiotherapists may use cognitive behavioural therapies when treating people with chronic musculoskeletal disorders The final part of the book focuses on selected contemporary issues in clinical practice for a particular region condition or the most topical approaches to the diagnosis and management of a region A critical review of the evidence or developing evidence for approaches is given and areas for future work are highlighted Presents state of the art manual therapy research from the last 10 years Multidisciplinary authorship presents the viewpoints of different professions crucial to the ongoing back pain management debate Highly illustrated and fully referenced

Artificial Intelligence, Optimization, and Data Sciences in Sports Maude J. Blondin,Iztok Fister Jr.,Panos M. Pardalos,2025-01-30 This book delves into the dynamic intersection of data science data mining machine learning and optimization within sports It compiles and presents the latest achievements in this vibrant and emerging research area offering a comprehensive overview of how these technologies revolutionize sports analytics and performance Topical coverage includes artificial intelligence in sports automated machine learning for training sessions computational social science and deep learning applications Readers will also explore cutting edge concepts such as digital twins in sports and sports prediction through data analysis This volume highlights theoretical advancements and practical case studies that demonstrate real world applications Ideal for researchers practitioners and students in fields related to sports science data analytics and machine learning this book serves as a crucial resource for anyone looking to understand the transformative impact of technology on sports Whether you are an academic scholar or a professional working in the industry this collection offers valuable insights that bridge the gap between research and practical solutions

Manufacturing Science and Technology III Rajagopal Sivakumar,2012-12-27 Selected peer reviewed papers from the 2012 3rd International Conference on Manufacturing Science and Technology ICMST 2012 August 18 19 2012 New Delhi India

Andrews' Diseases of the Skin William D. James,Dirk M. Elston,James R. Treat,Misha Rosenbach,2019-01-18 Now in a fully revised thirteenth edition Andrews Diseases of the Skin remains your single volume

must have resource for core information in dermatology From residency through clinical practice this award winning title ensures that you stay up to date with new tools and strategies for diagnosis and treatment new entities and newly recognized diseases and current uses for tried and true and newer medications It s the reference you ll turn to again and again when faced with a clinical conundrum or therapeutically challenging skin disease Utilizes a concise clinically focused user friendly format that clearly covers the full range of common and rare skin diseases Provides outstanding visual support with 1 340 illustrations more than 500 new to this edition Presents comprehensively updated information throughout including new and unusual clinical presentations of syphilis new diagnostic classifications and therapies for vascular anomalies and an updated pediatric and genodermatosis review Covers new and evolving treatments for inflammatory neoplastic and blistering skin diseases among others New biologics and phosphodiesterase inhibitors for psoriasis and atopic dermatitis JAK inhibitors for alopecia areata and vitiligo immune checkpoint inhibitors for melanoma and rituximab for pemphigus are all covered Features a revised and revamped cutaneous adverse drug reaction section including novel eruptions from new and emerging chemotherapeutic agents and small molecule targeted inhibitors Discusses new and emerging viruses including Zika and human polyomaviruses

Physical Culture and the Biopolitics of the International Garden City Movement Samuel M. Clevenger, 2025-05-25 This book revisits the history of the international garden city town planning movement in the early twentieth century focusing on the significance of various forms of physical culture sport recreation leisure and other active body practices within garden city planning discourse and the development of some of the first garden city communities in the United Kingdom and United States

Archaeologies of Animal Movement. Animals on the Move Anna-Kaisa Salmi, Sirpa Niinimäki, 2021-06-28 This book presents the state of the art in the analysis of animal movements in the past and its implications for human societies It also addresses the importance of animal activity and mobility for understanding past human societies and past human animal relationships through cases studies from different periods and areas It is the first book to focus on the archaeology of animal movement on different scales from fine tuned muscle movements of working animals to feeding behavior and to long distance movements across landscapes and regions With the recent development of fine tuned methodologies such as stable isotope analysis and physical activity assessment the potential to understand how animals moved about in the past has increased substantially While the chapters in the volume utilize a wide range of archaeological methods they are all united by an emphasis on understanding animal activity and mobility patterns as something that has a major impact on human societies and human animal relationships Chapters in this volume show that animal activity patterns provide information on multiple aspects of human animal relationships including analysis of animal management practices transhumance global and regional trade networks and animal domestication This volume is of interest to scholars working in zooarchaeology and early human societies

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