

## G11 PHYSICAL SCIENCE PAPER 1 REVISION

### QUESTION 2 (Start on a new page.)

Three forces, **P**, **Q** and **R**, of magnitudes 800N, 200N and 600N respectively, act on a point **O** in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by  
**CALCULATION**

(8)  
[8]

### QUESTION 3 (Start on a new page.)

A constant force, **F**, pulls a 35kg block at a constant speed over a rough horizontal surface, **AB**, as shown in the diagram below. The coefficient of kinetic friction ( $\mu_k$ ) between the block and the surface is 0,4.



3.1 Draw a labelled free-body diagram showing ALL the forces acting on the block.

(4)

3.2 State Newton's first law of motion in words.

(2)

Calculate the magnitude of the:

3.3 Force **F**

(6)

# Physical Science Paper 1 Trial 2014

**Tao Wei**



## **Physical Science Paper 1 Trial 2014:**

**Forensic Gait Analysis** Ivan Birch, Michael Nirenberg, Wesley Vernon, Maria Birch, 2020-07-07 Gait analysis is the systematic study of human walking using the eye and brain of experienced observers augmented by instrumentation for measuring body movements body mechanics and the activity of the muscles Since Aristotle's work on gait analysis more than 2000 years ago it has become an established clinical science used extensively in the healthcare and rehabilitation fields for diagnosis and treatment Forensic Gait Analysis details the more recent and rapidly developing use of gait analysis in the forensic sciences The book considers the use of observational gait analysis based on video recordings to assist in the process of identification or exclusion With the increase in use of CCTV and surveillance systems over the last 20 to 30 years there has been a steady and rapid increase in the use of gait as evidence Currently gait analysis is widely used in the UK in criminal investigations with increasing awareness of its potential use in the US Europe and globally The book details the history of the science current practices and of the emergent application to establish best practice standards that conform to those of other forensic science disciplines Engagement with the Forensic Science Regulator and the Chartered Society of Forensic Sciences in the UK and the International Association for Identification has helped to ensure and enhance the quality assurance of forensic gait analysis However there remains a fundamental lack of standardized training and methodology for use in evidentiary and investigative casework This book fills that void serving as one of the first to describe the current state of practice capabilities and limitations and to outline methods standards of practice and expectations of the gait analyst as a forensic practitioner Forensic Gait Analysis reflects current research and forensic practice and will serve as a state of the art guide to the use of gait analysis in the forensic context for both education and training purposes It will be a welcome addition to the libraries of professionals in the areas of podiatry gait analysis forensic video analysis law enforcement and legal practice

*Advanced Techniques in Musculoskeletal Medicine & Physiotherapy* Fermín Valera Garrido, PT MSc PhD, Francisco Minaya Muñoz, PT MSc PhD, 2015-10-02 Advanced Techniques in Musculoskeletal Medicine Physiotherapy is a brand new highly illustrated guide to the diagnosis and treatment of musculoskeletal disorders It demonstrates how to safely and effectively use selected minimally invasive therapies in practice In addition to more well established techniques such as acupuncture or dry needling this ground breaking resource also covers techniques including intratissue percutaneous electrolysis mesotherapy percutaneous needle tenotomy and high volume image guided injections Other featured chapters include those on specific musculoskeletal ultrasound such as sonoanatomy and ultrasound guided procedures Each chapter describes the principles indications and contraindications mechanisms of action and detailed outlines of techniques with an emphasis throughout on accessible practical information Additionally methodologies research results and summaries of studies for particular minimally invasive therapies are presented The book is also supported by a companion website [www.advancedtechniquesonline.com](http://www.advancedtechniquesonline.com) containing procedural video clips a full colour image library and

interactive multiple choice questions MCQs skills based and clinically oriented reinforced by the latest contemporary scientific medical research chapters on outcomes in clinical practice indications and contraindications discussed clinical cases key terms and key points boxes used throughout companion website [www.advancedtechniquesonline.com](http://www.advancedtechniquesonline.com) containing procedural video clips full colour image bank and interactive MCQs

**Sharing Clinical Trial Data** Institute of Medicine, Board on Health Sciences Policy, Committee on Strategies for Responsible Sharing of Clinical Trial Data, 2015-04-20

Data sharing can accelerate new discoveries by avoiding duplicative trials stimulating new ideas for research and enabling the maximal scientific knowledge and benefits to be gained from the efforts of clinical trial participants and investigators At the same time sharing clinical trial data presents risks burdens and challenges These include the need to protect the privacy and honor the consent of clinical trial participants safeguard the legitimate economic interests of sponsors and guard against invalid secondary analyses which could undermine trust in clinical trials or otherwise harm public health Sharing Clinical Trial Data presents activities and strategies for the responsible sharing of clinical trial data With the goal of increasing scientific knowledge to lead to better therapies for patients this book identifies guiding principles and makes recommendations to maximize the benefits and minimize risks This report offers guidance on the types of clinical trial data available at different points in the process the points in the process at which each type of data should be shared methods for sharing data what groups should have access to data and future knowledge and infrastructure needs Responsible sharing of clinical trial data will allow other investigators to replicate published findings and carry out additional analyses strengthen the evidence base for regulatory and clinical decisions and increase the scientific knowledge gained from investments by the funders of clinical trials The recommendations of Sharing Clinical Trial Data will be useful both now and well into the future as improved sharing of data leads to a stronger evidence base for treatment This book will be of interest to stakeholders across the spectrum of research from funders to researchers to journals to physicians and ultimately to patients

*Assessment and Multimodal Management of Pain* Maureen Cooney, Ann Quinlan-Colwell, 2020-10-31 Learn best practices and evidence based guidelines for assessing and managing pain Assessment and Multimodal Management of Pain An Integrative Approach describes how to provide effective management of pain through the use of multiple medications and techniques including both pharmacologic and non pharmacologic treatment regimens A holistic approach provides an in depth understanding of pain and includes practical assessment tools along with coverage of opioid and non opioid analgesics interventional and herbal approaches to pain and much more Written by experts Maureen F Cooney and Ann Quinlan Colwell this reference is a complete step by step guide to contemporary pain assessment and management Evidence based practical guidance helps students learn to plan and implement pain management and aligns with current guidelines and best practices Comprehensive information on the pharmacologic management of pain includes nonopioid analgesics opioid analgesics and co analgesics including dose titration routes of administration and prevention of side effects UNIQUE Multimodal approach

for pain management is explored throughout the book as it affects assessment the physiologic experience and the culturally determined expression acknowledgement and management of pain UNIQUE Holistic integrative approach includes thorough coverage of pain management with non pharmacologic methods Clinical scenarios are cited to illustrate key points Equivalent analgesic action for common pain medications provides readers with useful guidance relating to medication selection Pain rating scales in over 20 languages are included in the appendix for improved patient clinician communication and accurate pain assessment UNIQUE Authors Maureen F Cooney and Ann Quinlan Colwell are two of the foremost authorities in multimodal pain assessment and management Sample forms guidelines protocols and other hands on tools are included and may be reproduced for use in the classroom or clinical setting

### **The Trials of Evidence-based Education**

Stephen Gorard, Beng Huat See, Nadia Siddiqui, 2017-06-26 The Trials of Evidence based Education explores the promise limitations and achievements of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts Providing a detailed look at the pros cons and areas for improvement in evidence based policy and practice this book includes consideration of the following What is involved in a robust evaluation for education The issues in conducting trials and how to assess the trustworthiness of research findings New methods for the design conduct analysis and use of evidence from trials and examining their implications What policy makers head teachers and practitioners can learn from the evidence to inform practice In this well structured and thoughtful text the results and implications of over 20 studies conducted by the authors are combined with a much larger number of studies from their systematic reviews and the implications are spelled out for the research community policy makers schools wanting to run their own evaluations and for practitioners using evidence

**Ageless Brain** Editors Of Prevention Magazine, Julia VanTine, 2018-06-19 Breakthrough research has revealed that through living a brain healthy lifestyle we can reduce our brain age to improve memory hone sharpness and reduce health risks as we age It s normal for the brain to short circuit every now and then you put your keys in the fridge or can t find the pair of glasses on top of your head But what if there was a way to eat exercise and live that could eliminate these senior moments Ageless Brain offers a plan to sharpen your memories and mind so that at 40 you have the quick agile brain you had at 30 Based on groundbreaking scientific research this plan is filled with brain healthy foods exercises and little ways you can positively impact your most vital organ every day by de stressing adjusting your attitude and constantly interacting with the world through play Scientists have discovered that the human brain continually generates new neurons forging new pathways and connections in our minds well into old age as long as we pursue brain healthy lifestyles from what we eat and how much we sleep to how we exercise and handle stress Exercising and nourishing our brains just like we do any other ailing organ encourages this growth improving not only our mental fitness but also our physical fitness as a side effect With Ageless Brain you will Discover the 10 Commandments of an ageless brain Reduce key risk factors for Alzheimer s Identify

and avoid brain poisons lurking in food medicines and home Learn to play and engage your brain more in everyday life Drop unsafe levels of blood pressure cholesterol and sugar as well as belly fat Keep your brain nourished with 45 recipes

*Physics of Radiation and Climate* Michael A. Box, Gail P. Box, 2015-10-14 Our current climate is strongly influenced by atmospheric composition and changes in this composition are leading to climate change *Physics of Radiation and Climate* takes a look at how the outward flow of longwave or terrestrial radiation is affected by the complexities of the atmosphere's molecular spectroscopy This book examines the planet in

*Dynamic systems theory and embodiment in psychotherapy research. A new look at process and outcome* Sergio Salvatore, Wolfgang Tschacher, Omar Carlo Gioacchino Gelo, Sabine C Koch, 2016-04-11 In an attempt to cease from reducing the world and its emergent phenomena to linear modeling and analytic dissection Dynamic Systems Theories DST and Embodiment theories and methods aim at accounting for the complex dynamic and non linear phenomena that we constantly deal with in psychology For instance DST and Embodiment can enrich psychology's understanding of the communicative process both in clinical and non clinical settings In psychotherapy an important amount of research has shown that next to other ingredients the therapeutic relationship is the most important active factor contributing to psychotherapy outcome These findings give communication a central role in the psychotherapy process In the traditional view the underlying model of understanding psychotherapy processes is that of a number of components summatively coming together enabling us to make a linear causal prediction Yet communication is inherently dynamic A shift to viewing the communication process in psychotherapy as a field dynamic phenomenon helps us to take into account nonlinear phenomena such as feedback processes within and between persons We thus propose an embodied enactive dynamic systems view as a new theoretical and methodological perspective that can more realistically capture what happens among and between two persons in psychotherapy This view reaches beyond the current narrow model of psychotherapy research DST and Embodied Enactive Approaches can offer solutions to the loss of non linear phenomena the complex dynamics of reality and the holistic level of analysis DST and Embodied Enactive Approaches have developed not in a single discipline but in a joined movement based on various fields such as physics biology robotics anthropology philosophy linguistics neuroscience and psychology and have only recently entered clinical theorizing The two new paradigms have already triggered a rethinking of the therapeutic exchange by recognizing the embodied nature of psychological and communicative phenomena Their integration opens up a promising scenario in the field of psychotherapy research developing new profoundly transdisciplinary theoretical concepts methodologies and standards of knowledge The notion of field dynamics enables us to account for the role of the communicational context in the regulation of intra psychological processes while at the same time avoiding the pitfalls of an ontologization of the hierarchy of systemic organization Moreover the new approach implements methodological strategies that can transcend the conventional opposition between idiographic and nomothetic sciences

Mosby's Essential Sciences for Therapeutic Massage - E-Book Sandy Fritz, Luke Allen

Fritz, 2020-02-14 Get the science background you need to master massage therapy Mosby's Essential Sciences for Therapeutic Massage 6th Edition provides full color easy to read coverage of anatomy and physiology biomechanics kinesiology and pathologic conditions for the entire body Realistic examples apply A P content directly to the practice of massage therapy and learning activities help you review key material and develop critical thinking skills Written by noted massage therapy educators Sandy Fritz and Luke Allen Fritz this guide provides a solid foundation in the sciences and positions you for success on licensing and certification exams Coverage of essential sciences and practical application helps you study for and pass licensing and certification exams including the Massage and Bodywork Licensing Examination MBLEx and Board Certification in Therapeutic Massage and Bodywork BCTMB Over 700 full color line drawings and photos show muscle locations attachments and actions required knowledge for passing certification exams and for practicing massage therapy ELAP compliant content ensures that your skills and knowledge of massage therapy meet the proficiency recommendations of the Entry Level Analysis Project Learning features include chapter outlines objectives summaries key terms practical applications multiple choice review and discussion questions plus workbook sections on Evolve Biomechanics Basics chapter includes gait assessment and muscle testing activities along with critical thinking questions Sections on pathologic conditions include suggestions for referral protocols as well as indications and contraindications for therapeutic massage Coverage of nutrition explains how nutrition and nutritional products might affect or interfere with massage therapy describing the basics of nutrition the digestive process and all of the main vitamins and minerals and their functions in the body Practical Applications boxes include photos of massage techniques and settings and help you learn competencies and apply material to real world practice Focus on Professionalism boxes summarize key information about ethics and best business practices Mentoring Tips provide practical insight into important topics and on being a massage therapy professional Learning How to Learn boxes at the beginning of each chapter make it easier to comprehend key concepts Learn More on the Web boxes in the book and on Evolve suggest online resources for further reading and research Quick Content Review in Question Form on Evolve reinforces the key material in each chapter and increases critical thinking skills Appendix on diseases conditions provides a quick reference to indications and contraindications showing how pathologic conditions may affect the safety and efficacy of therapeutic massage

*Models, Measurement, and Metrology Extending the SI* William P. Fisher, Jr., Leslie Pendrill, 2024-09-23 The book focuses on the extension of quality assured measurement and metrology into psychological and social domains This is not only feasible and achievable but also a pressing concern Significant progress in developing a common conceptual system for measurement across the sciences has been made in recent collaborations between metrologists and psychometricians as reported in the chapters of this book Modeling estimation and interpretation of objectively reproducible unit quantities that support both general comparability and adaptation to unique local circumstances are demonstrated in fields as diverse as artificial intelligence justice and beauty

perception     *Miscarriages of Justice in Canada* Kathryn M. Campbell,2018-06-12 Innocent people are regularly convicted of crimes they did not commit A number of systemic factors have been found to contribute to wrongful convictions including eyewitness misidentification false confessions informant testimony official misconduct and faulty forensic evidence In *Miscarriages of Justice in Canada* Kathryn M Campbell offers an extensive overview of wrongful convictions bringing together current sociological criminological and legal research as well as current case law examples For the first time information on all known and suspected cases of wrongful conviction in Canada is included and interspersed with discussions of how wrongful convictions happen how existing remedies to rectify them are inadequate and how those who have been victimized by these errors are rarely compensated Campbell reveals that the causes of wrongful convictions are in fact avoidable and that those in the criminal justice system must exercise greater vigilance and openness to the possibility of error if the problem of wrongful conviction is to be resolved     **Confidential Informants** Jon Shane,2015-09-19 While

confidential informants CI s can play a crucial role in police investigations they also have the potential to cause great harm if they are dishonest The process by which police agencies qualify a CI to work and the strength of agency policy may be the source of the problem This Brief examines the integrity problem involving CIs in police operations within the United States provides an overview of pitfalls and problems related to veracity and informant integrity including the difficulties in detecting when a CI is lying and compares the provisions of actual published police policy to the model CI policy published by the International Association of Chiefs of Police IACP The analysis shows a wide divergence between actual police policy and the national standard promulgated by the IACP The Brief provides policy recommendations for improving use of CIs that can potentially reduce or eliminate integrity problems that can lead to organizational accidents such as wrongful arrests and convictions injuries or deaths Some Courts have issued measures to ensure that information received from CIs is reliable by examining sworn testimony and documents related to their work However as this Brief explores this judicial effort arises only after a police operation has taken place and the use of force even deadly force has already been employed The author proposes integrity testing beforehand which would allow police to have a greater understanding of a CI s motivation ability and veracity when conducting law enforcement operations In addition there are aspects of police policy that can enhance CI management such as training supervision and entrapment that can further guard against integrity problems Although integrity testing is not flawless it does interpose an additional step in the CI management process that can help guard against wrongful conviction and perjury that harms the judicial process     **Rehabilitation Research - E-Book** Catherine H.

Balthazar,Ann M. Vendrely,2021-07-03 UPDATED Revised evidence based content throughout provides students and rehabilitation practitioners with the most current information UPDATED Coverage of the latest research methods and references ensures content is current and applicable for today s PT OT and SLP students NEW Analysis and Interpretation of Data from Single Subject Designs chapter NEW Content on evaluating the quality of online and open access journals



**Integrative Medicine, eBook** David P. Rakel, Vincent Minichiello, 2022-08-12 Written by physicians who are experts in both traditional and complementary medicine Integrative Medicine 5th Edition uses a clinical disease oriented approach to safely and effectively incorporate alternative therapies into primary care practice Drawing on available scientific evidence and the authors first hand experiences it covers therapies such as botanicals supplements mind body lifestyle choices nutrition exercise spirituality and other integrative medicine modalities This highly regarded reference offers practical guidance for reducing costs and improving patient care while focusing on prevention and wellness for a better quality of life Explains how to make the best use of integrative medicine and the mechanisms by which these therapeutic modalities work keeping you at the forefront of the trend toward integrative health care Templated chapters make it quick and easy to find key information such as dosing pearls the Prevention Prescription and Therapeutic Reviews that incorporates the Evidence vs Harm Icon Uses the reliable SORT method Strength of Recommendation Taxonomy to provide evidence based ratings grading both the evidence and the relative potential harm Thoroughly updated ensuring that you remain well informed regarding the latest evidence Contains 10 new chapters covering clinician resilience supporting immunity NASH fatty liver hair loss rethinking the movement prescription compassion practices prescribing low dose naltrexone psychedelics tapering off PPIs and opioids as well as an expanded osteopathy chapter Covers timely topics aimed at reducing the epidemics of polypharmacy and opioid overuse as well as supporting immunity in the face of infectious diseases Provides online access to multiple choice questions for every chapter perfect for board exam review Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

**Bioprocess Engineering for a Green Environment** V. Sivasubramanian, 2018-05-04 Bioprocess Engineering for a Green Environment examines numerous bioprocesses that are crucial to our day to day life specifically the major issues surrounding the production of energy relating to biofuels and waste management The nuance of this discussion is reflected by the text s chapter breakdown providing the reader with a fulsome investigation of the energy sector the importance of third generation fuels and the application of micro and macroalgae for the production of biofuels The book also provides a detailed exploration of biocatalysts and their application to the food industry bioplastics production conversion of agrowaste into polysaccharides as well as the importance of biotechnology in bio processing Numerous industries discharge massive amounts of effluents into our rivers seas and air systems As such two chapters are dedicated to the treatment of various pollutants through biological operation with hopes of achieving a cleaner greener environment This book represents the most comprehensive study of bioprocessing and its various applications to the environment available on the market today It was furthermore written with various researchers in mind ranging from undergraduate and graduate students looking to enhance their knowledge of the topics presented to scholars and engineers interested in the bioprocessing field as well as members of industry and policy makers Provides a comprehensive overview of bioprocesses that apply to day to day living Is learner

centered providing detailed diagrams for easy understanding Explores the importance of biocatalysts and their applications to the food industry as well as bioplastics production Examines the unique capabilities of bioprocess engineering and its ability to treat various pollutants

**Psychology for the Common Good: The Interdependence of Citizenship, Justice, and Well-being across the Globe.** Ottar Ness, Salvatore Di Martino, Isaac Prilleltensky, 2022-11-10

**Determinants and Economic Consequences of Youth Unemployment at the Beginning of the 21st Century** Bernd Fitzenberger, Nicole Gürtzgen, Friedhelm Pfeiffer, 2016-11-21 No detailed description available for Determinants and Economic Consequences of Youth Unemployment at the Beginning of the 21st Century

**Natural Resources Conservation and Advances for Sustainability** Manoj Kumar Jhariya, Ram Swaroop Meena, Arnab Banerjee, Surya Nandan Meena, 2021-09-24 Natural Resources Conservation and Advances for Sustainability addresses the latest challenges associated with the management and conservation of natural resources It presents interdisciplinary approaches to promote advances in solving these challenges By examining what has already been done and analyzing it in the context of what still needs to be done particularly in the context of latest technologies and sustainability the book helps to identify ideal methods for natural resource management and conservation Each chapter begins with a graphical abstract and presents complicated or detailed content in the form of figures or tables In addition the book compares the latest techniques with conventional techniques and troubleshoots conventional methods with modifications making it a practical resource for researchers in environmental science and natural resource management Discusses the pros and cons of past and current endeavors related to natural resource management Presents recent technologies and methods for management and conservation particularly with applications for sustainability Covers a variety of disciplines from environmental science to life science Includes a graphical abstract as well as a section on significant achievements in the field and future perspectives

**Research Design in Clinical Psychology** Alan E. Kazdin, 2021-08-05 A thorough guide to research design from a world renowned clinical and child psychologist

Discover Sociology William J. Chambliss, Daina S. Eglitis, 2016-12-02 Discover Sociology explores sociology as a discipline of curious minds with the theoretical conceptual and empirical tools needed to understand analyze and even change the world Organized around the four main themes of The Sociological Imagination Power and Inequality Technological Transformations of Society and Globalization every chapter in the book illuminates the social roots of diverse phenomena and institutions

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