

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025



Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (1 mark)
State the meaning of parallel connection of components.
Answer: When two or more components are connected in such a way that the current can flow through more than one path.



- 2.1 (1 mark) Calculate the moment of the weight about the pivot.
2.2 (2 marks) Calculate the magnitude of the force F required to keep the beam in equilibrium.



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2013 Trial Physical Sciences Memo

Douglas C. Nord



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Teacher-Researcher Collaborations as Contexts for Learning Susan R Goldman, Cindy E. Hmelo-Silver, Eleni A. Kyza, 2025-09-26 Collaborative design in which both teachers and researchers participate can be a powerful context for capacity and knowledge building. However, typically the focus is on what and how teachers learn in co design efforts. As important is how researchers learn through co design with teachers. Co design is an expansive learning context because it juxtaposes goals, purposes, and outcomes of multiple participants and communities. Emergent tensions expand opportunities for learning of all participants and communities. The chapters in this volume exemplify a range of co design contexts and thereby illuminate different expansive learning contexts for teachers and researchers. This book was originally published as a special issue of *Cognition and Instruction*.

Nordic Perspectives on the Responsible Development of the Arctic: Pathways to Action Douglas C. Nord, 2020-10-30 This book investigates the multifaceted nature of change in today's Nordic Arctic and the necessary research and policy development required to address the challenges and opportunities currently faced by this region. It focuses its attention on the recent efforts of the Nordic community to create specialized Centers of Excellence in Arctic Research in order to facilitate this process of scientific inquiry and policy articulation. The volume seeks to describe both the steps that lead to this decision and the manner in which this undertaking has evolved. The work highlights the research efforts of the four Centers and their investigations of a variety of issues including those related to ecosystem and wildlife management, the revitalization of resource dependent communities, the emergence of new climate born diseases, and the development of adequate modeling techniques to assist northern communities in their efforts at adaptation and resilience building. Major discoveries and insights arising from these and other efforts are detailed and possible policy implications considered. The book also focuses attention on the challenges of creating and supporting multidisciplinary teams of researchers to investigate such concerns and the methods and means for facilitating their collaboration and the integration of their findings to form new and useful perspectives on the nature of change in the contemporary Arctic. It also provides helpful consideration and examples of how local and indigenous communities can be engaged in the co production of knowledge regarding the region. The volume discusses how such research findings can be best communicated and shared between scientists, policymakers, and northern residents. It considers the challenges of building common concern not just among different research disciplines but also between bureaucracies and the public. Only when this bridge building effort is undertaken can true pathways to action be established.

[Yearbook of International Organizations 2013-2014 \(Volume 3\)](#)

Union Of International Associations, Union of International Associations, 2013-08-09 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available. Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here. In addition to the history, aims, and activities of international organizations

with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 *The Stationery Office Annual Catalogue* Stationery Office (Great Britain),2013

The Psychology and Sociology of Wrongful Convictions Wendy J Koen,C. Michael Bowers,2018-06-26 Wrongful convictions are the result of faulty or false scientific evidence in 50% of the cases Defense counsel is often at a great disadvantage in defending against evidence based on science Illusory Evidence The Psychology and Sociology of Wrongful Convictions is written for the non scientist to make complicated scientific information clear and concise enough for attorneys and judges to master This is obtained by providing case studies to simplify issues in forensic psychology for the legal professional Increases the courts knowledge about areas of psychology that have been debunked have advanced or have been refined by the scientific community Covers issues in psychological forensics namely Profiling Psychological Defenses Mitigation Eyewitness Testimony Identification Child Testimony Repressed Memories False Confessions and Moral Panic Trains prosecuting attorneys about the present state of the forensic psychology to avoid relying only on legal precedent and will not present flawed science to the court Provides defense attorneys the knowledge necessary to competently defend where forensic psychology plays a part in a prosecution Arms innocence projects and appellate attorneys with the latest information to challenge convictions Uses case studies to simplify issues in forensic psychology for the legal professional

SickKids David Wright,The Hospital for Sick Kids,2017-01-06 Toronto s Hospital for Sick Children is the most famous medical institution in Canada In addition to being the largest pediatric centre in North America it has earned an international reputation for clinical care and research that has influenced generations of health care practitioners across the country and around the world In a very real sense hospital staff have touched the lives of tens of thousands of children and their families SickKids has an equally remarkable history from its humble origins in rented houses in Victorian Toronto the Hospital would flourish to become an influential paediatric institution pioneering Pasteurization the Iron Lung for Polio Pablum the Mustard Procedure for Blue Babies and the discovery of the gene for Cystic Fibrosis It would also be the site of two of most famous medical controversies in modern Canadian history the suspected murder of two dozen babies in the early 1980s and more recently the whistle blowing controversy involving the research scientist Nancy Olivieri David Wright s History of The Hospital for Sick Children chronicles this remarkable history of the SickKids including its triumphs and tragedies its discoveries and dead ends In doing so Wright has crafted a compelling and accessible history of SickKids that anchors Toronto s children s hospital within the broader changes affecting Canadian society and medical practice over the last century

Obesity Hypoventilation Syndrome Aiman Tulaimat,2020-07-26 Obesity Hypoventilation Syndrome From Physiologic Principles to Clinical Practice summarizes the current state of knowledge regarding the epidemiology physiology and treatment of obesity hypoventilation syndrome OHS Currently the identification and management of OHS is

suboptimal especially in the acute setting hence the misdiagnosis or mislabeling of the problem has a significant impact on patient outcomes This volume brings together all aspects of assessment and management into a main resource for understanding the complex physiological and clinical consequences of this condition Provides one page chapter summaries that cover epidemiology physiology and treatment options Presents an easy to use reference on obesity hypoventilation syndrome including symptoms Contains chapters with detailed discussions of topics including color images graphs and tables that summarize current research

Health Psychology David F. Marks, Michael Murray, Brian Evans, Emee Vida Estacio, 2015-05-13 Health Psychology students will need to understand how to evaluate and critically appraise the latest theory and research before it can be applied This fully revised and updated fourth edition takes a critical approach and places Health Psychology in a real world context enabling students to understand how public policy theory and research can influence communities and individuals alike The new edition includes A new chapter on diet and obesity Updated material on stress and coping doctor patient communication death dying bereavement and quality of life Introductions to the social political and economic conditions that influence our health Breadth of coverage from social inequality through to chronic illness and screening An enhanced SAGE edge companion website edge.sagepub.com/marks4e with a suite of features to enhance students learning experience

Canadian Journal of Fisheries and Aquatic Sciences, 2014 **Performance Report** Philippines. Department of Science and Technology, 2013 [Government Reports Announcements & Index](#), 1980-07 **Agrindex**, 1981 *The Soviet and Post-Soviet Review*, 2013 **Official Florida Statutes** Florida, 2013 [Hadzic's Textbook of Regional Anesthesia and Acute Pain Management: Self-Assessment and Review](#) Admir Hadzic, 2019-03-22

Questions and answers for thorough understanding of the latest advances in regional anesthesia and pain management Regional anesthesia and acute pain management protocols are rapidly changing The introduction of ultrasound in international pain management and regional anesthesia has resulted in significant changes in the practice management protocols techniques applications and their effects on patient safety and efficacy This evolution of the practice and expansion of new knowledge demands a reliable up to date resource designed to assess understanding of this ever changing subspecialty Hadzic's Textbook of Regional Anesthesia and Acute Pain Management Self Assessment and Review is designed to do just that Filling a gap in the medical literature This innovative review is the first question and answer book that focuses on the subspecialty of regional anesthesia and acute pain management and point of care ultrasound guided interventional analgesia and anesthesia In creating this book the contributors have selected an international team of opinion leaders and paired them with senior anesthesiology residents to prepare the most pertinent questions and provide the best answers to them Formatted for Efficiency Each of the 75 chapters consists of multiple choice questions answers and explanations suggested readings and references Answers to the questions are derived from the NYSORA's prestigious textbooks which are the gold standard educational material in universities worldwide An Essential Resource Hadzic's Textbook of Regional

Anesthesia and Acute Pain Management Self Assessment and Review will prove valuable to anesthesiology students and to fellows in regional anesthesiology as well as applicants for the diploma in regional anesthesia **American Journal of Veterinary Research** ,2013 Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association Ocean News & Technology ,2008 *The United States Patents Quarterly* ,1988 Report of cases relating to patents trade marks copyrights decided by Supreme Court of the United States United States Circuit courts of appeals District courts of the United States United States Court of Customs and Patent Appeals Court of Claims of the United States United States Court of Appeals for the District of Columbia Commissioner of Patents and Patent Office Board of Appeals **The Sword and the trowel; ed. by C.H. Spurgeon** London metrop. tabernacle,1883 *Current Law Index* ,2007

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angle of incidence and dioptric power of the spherical surface

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web when a ray of light encounters an interface between two transparent media a portion of it is reflected and a portion is refracted and it is natural to ask even during an early introduction to the subject just what fraction is reflected and what fraction is refracted

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60 and the refraction angle is 35 from snell's law $\sin \theta_1 / v_1 = \sin \theta_2 / v_2$ then $\sin 60 / 20 = \sin 35 / v_2$ and the speed of light in the block is 20 10 8 ms b the frequency of the light does not change upon refraction

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