

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

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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 electrical 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 (2 marks)  
2.2 (2 marks)



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# Physical Science Paper June Exemplar 2014

**David Myers, Jackie Abell, Fabio Sani**



## **Physical Science Paper June Exemplar 2014:**

*High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations* National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections

**Secure and Smart Cyber-Physical Systems** Uttam Ghosh, Fortune Mhlanga, Danda B Rawat, 2024-07-26 Cybersecurity is a paramount concern in both Internet of Things IoT and Cyber Physical Systems CPSs due to the interconnected and often critical nature of these systems The integration of AI ML into the realm of IoT and CPS security has gained significant attention and momentum in recent years The success of AI ML in various domains has sparked interest in leveraging these technologies to enhance the security resilience and adaptability of IoT and CPS Secure and Smart Cyber Physical Systems provides an extensive exploration of AI ML based security applications in the context of IoT and CPS Features Presents cutting edge topics and research in IoT and CPS Includes contributions from leading worldwide researchers Focuses on CPS architectures for secure and smart environments Explores AI ML and blockchain approaches for providing security and privacy to CPS including smart grids smart cities and smart healthcare Provides comprehensive guidance into the intricate world of software development for medical devices Covers a blueprint for the emergence of 6G communications technology in Industry 5 0 and federated learning based secure financial services This book covers state of the art problems existing solutions and potential research directions for CPS researchers scholars and professionals in both industry and academia

**Reflections and Extensions on Key Papers of the First Twenty-Five Years of Advances** Jerome A. Katz, Andrew C. Corbett, 2018-12-14 Written and edited by some of the world's leading entrepreneurship academics this anniversary volume showcases three of the most influential chapters from the series along with author reflections as well as new papers showing how these classic ideas connect and energize leading edge contemporary research in entrepreneurship and related fields

*The Metric Tide* James Wilsdon, 2016-01-20 Represents the

culmination of an 18 month long project that aims to be the definitive review of this important topic Accompanied by a scholarly literature review some new analysis and a wealth of evidence and insight the report is a tour de force a once in a generation opportunity to take stock Dr Steven Hill Head of Policy HEFCE LSE Impact of Social Sciences Blog A must read if you are interested in having a deeper understanding of research culture management issues and the range of information we have on this field It should be disseminated and discussed within institutions disciplines and other sites of research collaboration Dr Meera Sabaratnam Lecturer in International Relations at the School of Oriental and African Studies University of London LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community A commitment to using data and evidence to inform decisions makes many of us sympathetic even enthusiastic about the prospect of granular real time analysis of our own activities Yet we only have to look around us at the blunt use of metrics to be reminded of the pitfalls Metrics hold real power they are constitutive of values identities and livelihoods How to exercise that power to positive ends is the focus of this book Using extensive evidence gathering analysis and consultation the authors take a thorough look at potential uses and limitations of research metrics and indicators They explore the use of metrics across different disciplines assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems Finally they consider the negative or unintended effects of metrics on various aspects of research culture Including an updated introduction from James Wilsdon the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management by funders and in the next cycle of the Research Excellence Framework The metric tide is certainly rising Unlike King Canute we have the agency and opportunity and in this book a serious body of evidence to influence how it washes through higher education and research

**Sport Development in the United States** Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in sports development sports management sports policy or comparative international sport studies

Forensic Podiatry Denis Wesley Vernon, John A. DiMaggio, 2017-06-01 Forensic Podiatry Principles and Methods Second Edition has been completely updated to reflect the latest developments and advancements in this changing field New additions to the book from the previous edition include all new chapters on the expert witness Frye Test and Daubert Standard as well as revised theories on gait analysis bare footprint identification and footwear examination The new edition includes extensive case studies and an international compilation of current best practices Since this text's first publication the field of forensic podiatry has rapidly developed from relative obscurity to a dynamic internationally recognized discipline Forensic podiatrists have been able to advance improvements in the field both in widening the range of applications and deepening the practice through improved techniques to strengthen evidentiary conclusions Written by two pioneers in the field Forensic Podiatry includes over one hundred detailed illustrations to serve as an invaluable resource for students practicing forensic podiatrists legal professionals and those new to the profession *EBook: Social Psychology 3e* David Myers, Jackie Abell, Fabio Sani, 2020-08-21 Social psychology has a profound influence on our everyday lives from our shopping habits to our interactions at a party It seeks to answer questions that we often think and talk about questions such as What circumstances prompt people to help or not to help What factors influence the ups and downs of our close relationships Why do some people behave differently when on their own compared to in a group What leads individuals sometimes to hurt and other times to help one another Why are we attracted to certain types of people How do some persuade others to do what they want This new edition of Social Psychology has been revised to introduce a more flexible structure for teaching and studying It includes up to date international research with an emphasis throughout on its critical evaluation Applied examples across the chapters help to highlight the relevance and hence the impact that the theories and methods of this fascinating subject have upon the social world Key Features Include Research Close Up Following a brand new style this feature matches the layout used in research papers providing an accessible introduction to journal articles and the research methods used by social psychologists Focus On Fully revised these boxes look at opposing viewpoints controversial research or alternative approaches to the topics This offers a more critical outlook and prompts the questioning of the validity of published research Recommended Readings New to this edition recommended further readings of both classic and contemporary literature have been added to each chapter providing a springboard for further consideration of the topics Connect Psychology is McGraw Hill's digital learning and teaching environment Students You get easy online access to homework tests and quizzes designed by your instructor You receive immediate feedback on how you're doing making it the perfect platform to test your knowledge Lecturers Connect gives you the power to create auto graded assignments tests and quizzes online The detailed visual reporting allows you to easily monitor your students progress In addition you can access key support materials for your teaching including a testbank seminar materials and lecture support Visit <http://connect.mcgraw-hill.com> for more details Professor David N Myers holds the Sady and Ludwig Kahn Chair in Jewish History As of fall

2017 he serves as the director of the Luskin Center for History and Policy He previously served as chair of the UCLA History Department 2010 2015 and as director of the UCLA Center for Jewish Studies 1996 2000 and 2004 2010 Dr Jackie Abell is a Reader in Social Psychology with the Research Centre for Agroecology Water and Resilience based at Coventry University UK Her current areas of research interest include the application of social psychology to wildlife conservation and environmental issues to facilitate resilience and sustainable development place attachment and identity social cohesion and inclusion Professor Fabio Sani holds a Chair in Social and Health Psychology at the University of Dundee His general research interest concerns the mental and physical health implications of group processes social identity and sense of belonging He has been an associate editor of the European Journal of Social Psychology

*Concepts for Nursing Practice E-Book* Jean Foret Giddens, 2019-11-22 Learn the core concepts of nursing care and apply them to the clinical setting Concepts for Nursing Practice 3rd Edition uses a simplified intuitive approach to describe 57 important concepts relating to all areas of nursing practice For easier understanding this book also makes connections among related concepts and links you to other nursing textbooks Exemplars for each concept provide useful examples and models showing how concepts are successfully applied to practice New to this edition are updated research evidence and a new Population Health concept Written by conceptual learning expert Jean Giddens this text will help you build clinical reasoning skills and prepare confidently for almost any clinical nursing situation Authoritative content written by expert contributors and meticulously edited by concept based learning expert Jean Giddens sets the standard for the rapidly growing concept based curriculum movement A total of 57 important nursing concepts are clearly defined and analyzed spanning the areas of patient physiology patient behavior and the professional nursing environment Case studies in each chapter make it easier to apply knowledge of nursing concepts to real world situations UNIQUE Featured Exemplars sections describe selected exemplars related to each nursing concept covering the entire lifespan and all clinical settings and help you assimilate concepts into practice UNIQUE Logical framework of concepts by units and themes helps you form immediate connections among related concepts a key to conceptual learning UNIQUE Interrelated Concepts illustrations provide visual cues to understanding and help you make connections across concepts NEW UPDATED content reflects the latest research evidence and national and international practice guidelines NEW Population Health concept reflects the future of nursing in which health care organizations learn to deliver care that is high in quality patient centered cost effective and evidence based NEW Featured Exemplars sections provide a brief explanation of some of the most important exemplars NEW Discussion questions in case studies reinforce your understanding of each concept NEW UPDATED exemplar links connect you to concept exemplars in other RN and LPN LVN level Elsevier nursing titles

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