

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 (4 marks)
State the meaning of potential difference across a component.
Answer: The difference in potential energy per unit charge between two points in the circuit.



- 2.1 (2 marks)
2.2 (2 marks)



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ICEL2015-10th International Conference on e-Learning Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25 26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning www.ejel.com These will be chosen for their quality of writing and relevance to the Journal s objective of publishing papers that offer new insights or practical help into the application e Learning *Offshore*

Mechatronics Systems Engineering Hamid Reza Karimi, 2018-07-04 The book gives a systematical and almost self contained description of the many facets of envisaging designing implementing or experimentally exploring offshore mechatronics and systems along the adequate designs of integrated modeling safety control and supervision infrastructure With the rapid improvements in offshore technologies in various fields such as oil and gas industry wind energy robotics and logistics many researchers in academia and industry have focused on technology based challenges raised in offshore environment This book introduces novel theoretical or practical techniques for offshore mechatronics systems Chapters cover general application model based systems engineering wind energy control systems mechanics health monitoring safety critical human machine systems logistics and offshore industrial complexes such as oil and gas operations robotics large space structures and autonomous underwater vehicles and some other advanced technologies The core feature of this book is that of establishing synergies of modeling control computing and mechanics in order to achieve not only robust plant system operation but also properties such as safety cost integrity and survivability while retaining desired performance quality The book provides innovative insights into applications aspects and theoretical understanding of complex offshore mechatronics systems that has emerged in recent years either via physical implementations or via extensive computer simulations in addition to sound innovated theoretical developments It will serve as a reference for graduate and postgraduate students and for researchers in all engineering disciplines including mechanical engineering electrical engineering and applied mathematics to explore the state of the art techniques for solving problems of integrated modeling control and supervision of complex offshore plants

with collective safety and robustness Thus it shall be useful as a guidance for system engineering practitioners and system theoretic researchers alike

Disorder and the Disinformation Society Jonathan Paul Marshall,James Goodman,Didar Zowghi,Francesca da Rimini,2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

Where Have All the Democrats Gone? Ruy Teixeira,John B. Judis,2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In Where Have All the Democrats Gone John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country s current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

Pedagogical Experiments in Architecture for a Changing Climate Tülay Atak,Luis Callejas,Jonathan Scelsa,Jørgen Johan Tandberg,2024-01-22 This book presents a series of pedagogical experiments translating climate science environmental humanities material research ecological practices into the architectural curriculum Balancing the science and humanities it exposes recent pedagogical experiments from renown educators while also interrogating a designer s agency between science and speculation in the face of climate uncertainty The teaching experiments are presented across four sections Abstraction Organization Building and Narrative exposing core parts of an architect s education and how educators can

simultaneously provide fundamental skills and constructive literacy while instigating environmental sensibilities Chapters cover issues such as an unstable hydrosphere water infrastructure remediating materials methods of disassembly and adaptive reuse as well as constructing new aesthetic categories of climate change and implementing oral histories of construction among many others Written and edited by expert design educators actively engaged in experimenting in new forms of pedagogy this book will be of great use to architecture instructors at all levels looking to renew their teaching practices to more directly address the climate emergency It will also appeal to those academics across the built environment interested in the ways design can affect and adapt to climate change **Precision Cosmology** Bernard J. T.

Jones,2017-04-20 Cosmology seeks to characterise our Universe in terms of models based on well understood and tested physics Today we know our Universe with a precision that once would have been unthinkable This book develops the entire mathematical physical and statistical framework within which this has been achieved It tells the story of how we arrive at our profound conclusions starting from the early twentieth century and following developments up to the latest data analysis of big astronomical datasets It provides an enlightening description of the mathematical physical and statistical basis for understanding and interpreting the results of key space and ground based data Subjects covered include general relativity cosmological models the inhomogeneous Universe physics of the cosmic background radiation and methods and results of data analysis Extensive online supplementary notes exercises teaching materials and exercises in Python make this the perfect companion for researchers teachers and students in physics mathematics and astrophysics *People's Diplomacy* Kazushi Minami,2024-03-15 In *People's Diplomacy* Kazushi Minami shows how the American and Chinese people rebuilt US China relations in the 1970s a pivotal decade bookended by Richard Nixon's 1972 visit to China and 1979 normalization of diplomatic relations Top policymakers in Washington and Beijing drew the blueprint for the new bilateral relationship but the work of building it was left to a host of Americans and Chinese from all walks of life who engaged in people to people exchanges After two decades of estrangement and hostility caused by the Cold War these people dramatically changed the nature of US China relations Americans reimagined China as a country of opportunities irresistible because of its prodigious potential while Chinese reinterpreted the United States as an agent of modernization capable of enriching their country and rejuvenating their lives Drawing on extensive research at two dozen archives in the United States and China *People's Diplomacy* redefines contemporary US China relations as a creation of the American and Chinese people Symposium,2007 *Pacific International Conference on Aerospace Science and Technology*,1994 INIS Atomindex,1979-07

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Monthly Weather Review ,1990 Psychology in Everyday Life David G. Myers,2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall s enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds

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