



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2017

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages, 3 data sheets and 1 answer sheet

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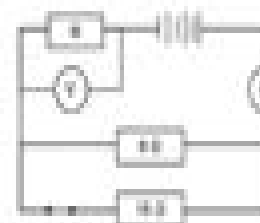
Physical Sciences/P1

10
CAPS – Grade 11

100 Marks (P1)

QUESTION 10 (Start on a new page.)

- 10.1 The circuit below consists of a 4 Ω and 16 Ω resistor connected in parallel and an unknown resistor R_x in series. An ammeter, a high-resistance voltmeter, a closed switch and battery are connected, as shown. The resistance of the battery and wires can be ignored.



The total power dissipated in the parallel part of the circuit is 32 W.

- 10.1.1 Define the term power. (2)
10.1.2 Calculate the effective resistance of the parallel combination. (2)
10.1.3 Calculate the potential difference across the resistors in parallel. (2)
10.1.4 Calculate the current through resistor R_x. (2)

The switch in the circuit is now OPENED.

- 10.1.5 How will the reading on the voltmeter (V) be affected?
Choose from INCREASE, DECREASE or REMAIN THE SAME. (1)
10.1.6 Refer the answer to QUESTION 10.1.5. (2)

- 10.2 A geyser, labeled 2000 W, is used for an average of 3 hours per day. The cost of electricity is 30 cents per kWh.

- 10.2.1 Calculate the energy used by the geyser for 3 hours per day. (2)
10.2.2 Calculate the cost of electricity to operate the geyser for a month with 30 days. (2)

(2)

TOTAL: 100

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Grade 1electrical Technology 2013 November Exam

Zongping Shao,Moses O. Tadó



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Energy and Fuel Systems Integration Yatish T. Shah,2015-10-15 Energy and Fuel Systems Integration explains how growing energy and fuel demands paired with the need for environmental preservation require different sources of energy and fuel to cooperate and integrate with each other rather than simply compete Providing numerous examples of energy and fuel systems integration success stories this book Discu 2013 *International Conference on Electrical, Control and Automation Engineering(ECAE2013)* Dr. S. Momani,2014-01-07 2013 International Conference on Electrical Control and Automation Engineering ECAE2013 aims to provide a forum for accessing to the most up to date and authoritative knowledge from both Electrical Control and Automation Engineering ECAE2013 features unique mixed topics of Electrical Engineering Automation Control Engineering and so on The goal of this conference is to bring researchers engineers and students to the areas of Electrical Control and Automation Engineering to share experiences and original research contributions on those topics Researchers and practitioners are invited to submit their contributions to ECAE2013 **Intermediate-Temperature**

Solid Oxide Fuel Cells Zongping Shao,Moses O. Tadé,2016-09-12 This book discusses recent advances in intermediate temperature solid oxide fuel cells IT SOFCs focusing on material development and design mechanism study reaction kinetics and practical applications It consists of five chapters presenting different types of reactions and materials employed in electrolytes cathodes anodes interconnects and sealants for IT SOFCs It also includes two chapters highlighting new aspects of these solid oxide fuel cells and exploring their practical applications This insightful and useful book appeals to a wide readership in various fields including solid oxide fuel cells electrochemistry membranes and ceramics Zongping Shao is a Professor at the State Key Laboratory of Materials Oriented Chemical Engineering and the College of Energy Nanjing University of Technology China Moses O Tade is a Professor at the Department of Chemical Engineering Curtin University Australia **2012-2013 College Admissions Data Sourcebook Midwest Edition , UPSC Power Bank:1000+**

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implementation of effective urban climate change policies leveraging ongoing and planned investments for populations in cities of developing emerging and developed countries This volume like its predecessor will be invaluable for a range of audiences involved with climate change and cities mayors city officials and policymakers urban planners policymakers charged with developing climate change mitigation and adaptation programs and a broad spectrum of researchers and advanced students in the environmental sciences

Hybrid Nuclear Energy Systems Michael F. Keller, 2021-01-30 Hybrid Nuclear Energy Systems A Sustainable Solution for the 21st Century provides practical insights on the environmental impact of the hybrid systems discussed as well as important technical economic licensing and safety considerations This book acts as a guide for the implementation of hybrid energy systems and authoritatively compares the benefits and possible downfalls of each technology This enables the reader to analyze their own setting or research and evaluate the most economical and effective solution Energy engineering researchers and professional engineers will benefit from the practical and technical approach of this book This book will also benefit regulators and economists who will gain a clear understanding of how a hybrid system is not only designed but also how societies will benefit from a cleaner and more abundant energy source Provides a comprehensive analysis of hybrid energy systems and their associated benefits and possible shortcomings Provides the latest technical environmental economic safety and regulatory research Ranks key energy production methods against novel hybrid systems to highlight possibilities

Code of Federal Regulations, 2013 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

Energy and Power Technology Xin Wei Yu, Hong Bing Ji, Sheng Zhou Chen, Xiao Guo Liu, Qing Zhu Zeng, 2013-09-10 Selected peer reviewed papers from the 2013 International Conference on Advances in Energy and Environmental Science ICAEES 2013 July 30 31 2013 Guangzhou China

Modular Systems for Energy Usage Management Yatish T. Shah, 2020-01-22 a very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century Pinakin Patel T2M Global This book examines the role of the modular approach for the back end of the energy industry energy usage management It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency which are preludes to the prudent use of energy Since energy consumption is conventionally broken down into four sectors residential transportation industrial and commercial the discussions on energy usage management are also broken down into these four sectors in the book The book examines the use of modular systems for five application areas that cover the sectors described above buildings vehicles computers and electrical electronic products district heating and wastewater treatment and desalination This book also discusses the use of a modular approach for energy storage and transportation Finally it describes how the modular approach facilitates bottom up top down and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives Aimed at industry professionals and researchers involved in the energy industry this book

illustrates in detail with the help of concrete industrial examples how a modular approach can facilitate management of energy usage **Energy Research Abstracts** ,1990 *Junior Graphic* Mavis Kitcher (Mrs),2014-10-29 **The DevOps Handbook** Gene Kim,Jez Humble,Patrick Debois,John Willis,Nicole Forsgren,2021-11-30 This award winning and bestselling business handbook for digital transformation is now fully updated and expanded with the latest research and new case studies The DevOps Handbook remains a must read for any organization seeking to scale up its IT capability and expand DevOps practices across multiple departments or lines of business Mike Perrow TechBeacon For years The DevOps Handbook has been the definitive guide for taking the successes laid out in the bestselling The Phoenix Project and applying them in any organization Now with this fully updated and expanded edition it s time to take DevOps out of the IT department and apply it across the full business Technology is now at the core of every company no matter the business model or product The theories and practices laid out in The DevOps Handbook are tools to be used by anyone from across the organization to create joy and succeed in the marketplace The second edition features 15 new case studies including stories from Adidas American Airlines Fannie Mae Target and the US Air Force In addition renowned researcher and coauthor of Accelerate Dr Nicole Forsgren provides her insights through new and updated material and research With over 100 pages of new content throughout the book this expanded edition is a must read for anyone who works with technology The DevOps Handbook is a practical roadmap to improving IT in any organization It s also the most valuable book on software development I ve read in the past 10 years Adam Hawkins software developer and host of the podcast SmallBatches The Carbon Footprint of our Primary Energy Sources Mukul M. Sharma,2025-05-15 The Carbon Footprint of our Primary Energy Sources supplies readers with a comprehensive accessible analysis of the carbon footprints of a range of primary energy sources including crude oil natural gas coal solar energy wind energy geothermal energy hydroelectric energy and nuclear energy and biofuels and their carbon footprints employing a full lifecycle assessment LCA of each primary energy source It furnishes both the foundation and a tool for estimating carbon footprints for a range of energy systems The work culminates in a cost benefit analysis of these primary energy sources With the significant uptick of global investment in alternative energies and the global focus on reducing emissions this text delivers an important foundational overview understanding of these systems and an opportunity for teachers and readers to apply learnings to their own energy consumption choices Presents foundational information about various energy systems and quantifies their carbon footprint Raises awareness among readers of their energy consumption and the primary sources of carbon emissions Equips policy makers and engineers with the tools to calculate the carbon footprint of various energy sources Empowers readers to make informed energy decisions that support the reduction of carbon emissions Discusses the technologies options and costs of energy storage for intermittent sources of energy Presents the costs of carbon capture sequestration and utilization and its impact on energy prices for the consumer Summarizes valuable lessons learnt from our energy policy and choices over the past two decades **But Will It Fly?** Iver P.

Cooper,2025-09-17 Conventional aircraft today are propelled by the action of propellers or jets and powered by the internal combustion of petroleum fuels in piston turboprop or jet engines But other power sources powerplants and propulsion devices for airships as well as aircraft have been proposed and even experimented with over the last few centuries The power sources considered include human muscles steam batteries nuclear reactors and hydrogen fuel and the propulsion devices include sails oars flapping wings rockets and cycloidal propellers This meticulously researched book presents the history of these unconventional aerial power and propulsion systems explains the underlying science and technology behind them and assesses the crucial question of practicality **The ASQ Certified Software Quality Engineer Handbook** Linda

Vogelsong Westfall,2025-01-05 The ASQ Certified Software Quality Engineer Handbook Third Edition contains information and guidance that supports all the topics within the 2023 version of the Certified Software Quality Engineer CSQE Body of Knowledge BoK Armed with the knowledge in this handbook qualified software quality practitioners will be prepared for the ASQ CSQE exam It is also helpful for any practitioner or manager who needs to understand the aspects of software quality that impacts their work Model Predictive Control of Wind Energy Conversion Systems Venkata Yaramasu,Bin

Wu,2016-11-23 Model Predictive Control of Wind Energy Conversion Systems addresses the predicative control strategy that has emerged as a promising digital control tool within the field of power electronics variable speed motor drives and energy conversion systems The authors provide a comprehensive analysis on the model predictive control of power converters employed in a wide variety of variable speed wind energy conversion systems WECS The contents of this book includes an overview of wind energy system configurations power converters for variable speed WECS digital control techniques MPC modeling of power converters and wind generators for MPC design Other topics include the mapping of continuous time models to discrete time models by various exact approximate and quasi exact discretization methods modeling and control of wind turbine grid side two level and multilevel voltage source converters The authors also focus on the MPC of several power converter configurations for full variable speed permanent magnet synchronous generator based WECS squirrel cage induction generator based WECS and semi variable speed doubly fed induction generator based WECS Furthermore this book Analyzes a wide variety of practical WECS illustrating important concepts with case studies simulations and experimental results Provides a step by step design procedure for the development of predictive control schemes for various WECS configurations Describes continuous and discrete time modeling of wind generators and power converters weighting factor selection discretization methods and extrapolation techniques Presents useful material for other power electronic applications such as variable speed motor drives power quality conditioners electric vehicles photovoltaic energy systems distributed generation and high voltage direct current transmission Explores S Function Builder programming in MATLAB environment to implement various MPC strategies through the companion website Reflecting the latest technologies in the field Model Predictive Control of Wind Energy Conversion Systems is a valuable reference for academic researchers

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ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center,1976

Cloud and IoT-Based Vehicular Ad Hoc Networks Gurinder Singh,Vishal Jain,Jyotir Moy Chatterjee,Loveleen Gaur,2021-05-11 CLOUD AND IOT BASED VEHICULAR AD HOC NETWORKS This book details the architecture behind smart cars being fitted and connected with vehicular cloud computing IoT and VANET as part of the intelligent transport system ITS As technology continues to weave itself more tightly into everyday life socioeconomic development has become intricately tied to ever evolving innovations An example of this is the technology being developed to address the massive increase in the number of vehicles on the road which has resulted in more traffic congestion and road accidents This challenge is being addressed by developing new technologies to optimize traffic management operations This book describes the state of the art of the recent developments of Internet of Things IoT and cloud computing based concepts that have been introduced to improve Vehicular Ad Hoc Networks VANET with advanced cellular networks such as 5G networks and vehicular cloud concepts 5G cellular networks provide consistent faster and more reliable connections within the vehicular mobile nodes By 2030 5G networks will deliver the virtual reality content in VANET which will support vehicle navigation with real time communications capabilities improving road safety and enhanced passenger comfort In particular the reader will learn A range of new concepts in VANETs integration with cloud computing and IoT emerging wireless networking and computing models New VANET architecture technology gap business opportunities future applications worldwide applicability challenges and drawbacks Details of the significance of 5G Networks in VANET vehicular cloud computing edge fog computing based on VANET Audience The book will be widely used by researchers automotive industry engineers technology developers system architects IT specialists policymakers and students

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