



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 3000 W, is used for an average of 5 hours per day. The cost of electricity is 30 cents per kWh.

- 10.2.1 Calculate the energy used by the geyser for 5 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 11 November 2014 Electrical Technology

Puja Mehta



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GENERAL HINDI, GENERAL KNOWLEDGE & REASONING YCT EXPERT TEAM, 2020 21 UPPCL GENERAL HINDI GENERAL KNOWLEDGE REASONING SOLVED PAPERS Rare Metal Technology 2014 Neale R. Neelameggham, Shafiq Alam, Harald Oosterhof, Animesh Jha, Shijie Wang, 2014-02-03 This collection presents the papers presented in the symposium on extraction of rare metals as well as rare extraction processing techniques used in metal production Paper topics include the extraction and processing of elements like antimony arsenic calcium chromium hafnium gold indium lithium molybdenum niobium rare earth metals rhenium scandium selenium silver strontium tantalum tellurium tin tungsten vanadium and zirconium Rare processing techniques presented include bio leaching molecular recognition technology recovery of valuable components of commodity metals such as magnesium from laterite process wastes titanium from ilmenites and rare metals from wastes such as phosphors and LCD monitors

Surface Engineering R.S. Walia, Qasim Murtaza, Shailesh Mani Pandey, Ankit Tyagi, 2022-12-19 Surface engineering is considered an important aspect in the reduction of friction and wear This reference text discusses a wide range of surface engineering technologies along with applications in a comprehensive manner The book describes various methods in surface engineering technology with a thorough explanation of various aspects of each process that comes under this domain Apart from an enhanced explanation of the process and its attributes this book also gives insight into the types of materials applications and optimization of surface engineering techniques It discusses important topics including surface engineering of the functionality of graded materials materials characterization processing of biomaterials design surface modification technologies and process control smart manufacturing artificial intelligence and machine learning applications The book discusses computational and simulation analyses for better selection of process parameters covers optimizations of processes with state of the art technologies discusses applications of surface engineering in medical agricultural architecture engineering and allied sectors covers processing techniques of biomaterials in surface engineering The text is useful for senior undergraduate graduate students and academic researchers working in diverse areas such as industrial and production engineering mechanical engineering materials science and manufacturing science It covers a hybrid process for surface modification modeling techniques and issues in surface engineering

Progress in Automation, Robotics and Measuring Techniques Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2015-03-09 This book presents recent progresses in control automation robotics and measuring techniques It includes contributions of top experts in the fields focused on both theory and industrial practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The presented theoretical results practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems

Sustainable Production Technology in Food Jose M. Lorenzo, Paulo E.S. Munekata, Francisco J.

Barba,2021-08-06 Sustainability is an essential part of our modern food production system Carrying out food research that considers environmental social and economic factors is a major objective for food producers and researchers Strategic development and use of technology can greatly assist in the progression toward a more sustainable food system Sustainable Production Technology in Food explores important scientific and practical aspects related to sustainable technologies used in all aspects of the food system This book is organized into 13 chapters that cover the main concepts related to sustainability and technology Coverage includes current technology in the industry technological developments to improve sustainability of food production biopreservation pulsed electric fields high pressure processing ultrasound cold plasma and nanotechnology regulatory aspects and future perspectives Presents a comprehensive discussion around the technological advances of sustainable food production Addresses the current relationship between food production and sustainability Focuses on how technology can impact the sustainability of the food production system

Sustainable Technology and Advanced Computing in Electrical Engineering Vasundhara Mahajan,Anandita Chowdhury,Narayana Prasad Padhy,Fernando Lezama,2022-11-02 The book includes peer reviewed papers of the International Conference on Sustainable Technology and Advanced Computing in Electrical Engineering ICSTACE 2021 The main focus of the book is electrical engineering The conference aims to provide a global platform to the researchers for sharing and showcasing their discoveries findings innovations The book focuses on the areas related to sustainable development and includes research works from academicians and industry experts The book discusses new challenges and provides solutions at the interface of technology information complex systems and future research directions

Advanced Machining and Micromachining Processes Sandip Kumar,Norfazillah Binti Talib,Gurudas Mandal,2025-04-08 This book offers a comprehensive overview of the fundamentals principles and latest innovations in advanced machine and micromachining processes Businesses are continually seeking innovative advanced machining and micromachining techniques that optimize efficiency while reducing environmental harm This growing competitive pressure has spurred the development of sophisticated design and production concepts Modern machining and micromachining methods have evolved to accommodate the use of newer materials across diverse applications while ensuring precise machining accuracy The primary aim of this book is to explore and analyze various approaches in modern machining and micromachining processes with a focus on their effectiveness and application in successful product development Consequently the book emphasizes an industrial engineering perspective This book covers a range of advanced machining and micromachining processes that can be utilized by the manufacturing industry to enhance productivity and contribute to socioeconomic development Additionally it highlights ongoing research projects in the field and provides insights into the latest advancements in advanced machining and micromachining techniques The 31 chapters in the book cover the following subjects abrasive jet machining water jet machining principles of electro discharge machining wire electro discharge machining laser beam machining plasma arc machining ion beam machining electrochemical

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International Conference on Wireless Intelligent and Distributed Environment for Communication Isaac Woungang, Sanjay Kumar Dhurandher, 2019-03-27 This book presents the proceedings of the International Conference on Wireless Intelligent and Distributed Environment for Communication WIDECOM 2019 sponsored by the University of Milan Milan Italy February 11 13 2019 The conference deals both with the important core and the specialized issues in the areas of new dependability paradigms design and performance of dependable network computing and mobile systems as well as issues related to the security of these systems The WIDECOM proceedings features papers addressing issues related to the design analysis and implementation of infrastructures systems architectures algorithms and protocols that deal with network computing mobile ubiquitous systems cloud systems and IoT systems It is a valuable reference for researchers instructors students scientists engineers managers and industry practitioners The book s structure and content is organized in such a manner that makes it useful at a variety of learning levels Presents the proceedings of the International Conference on Wireless Intelligent and Distributed Environment for Communication WIDECOM 2019 Milan Italy February 11 13 2019 Includes an array of topics networking computing mobile ubiquitous systems cloud systems and IoT systems Addresses issues related to protecting information security and establishing trust in the digital space **Back on Track** Mark

Aldrich, 2018-02-15 A fascinating account of one of America s most important industries and its dangers Throughout the early twentieth century railroad safety steadily improved across the United States But by the 1960s American railroads had fallen apart the result of a regulatory straightjacket that eroded profitability and undermined safety Collisions derailments worker fatalities and grade crossing mishaps skyrocketed while hazmat disasters exploded into newspaper headlines In Back on Track his sequel to Death Rode the Rails Mark Aldrich traces the history of railroad accidents beginning in 1965 when Congress responded to bankrupt and scandal ridden carriers by enacting a new safety regime Aldrich details the federalization of rail safety and the implementation of a massive grade crossing program He touches on post 1976 economic deregulation which provided critical financing that underwrote better public safety He also explores how the National

Transportation Safety Board acted as a public scold to shine bright lights on private failings while Federal Railroad Administration regulations reinforced market incentives for better safety Ultimately Aldrich concludes the past 50 years have seen great strides in restoring railroad safety while enhancing industry profitability Arguing that it was not inadequate safety regulation but rather stifling economic regulation that initially caused an uptick in train accidents Back on Track is both a paen to the return of more competitive railroading and the only comprehensive history of the safety of modern American railroads Praise for Death Rode the Rails A masterful study of the complex evolution of railroad safety American Historical Review Students of rail safety and today s Class I railroad managers need to read this volume Trains Aldrich has created a masterpiece His research is extensive drawing on a rich variety of obscure yet relevant sources Register of the Kentucky Historical Society One of the first large scale scholarly studies of railroad safety in America Railroad History A thought provoking and well grounded contribution to the history of American economic development Journal of American History Pioneering A central message of Aldrich s book is that little accidents played a crucial though until now largely hidden role in the gradual evolution of a risk society Technology and Culture A work of merit essential reading for historians of transport safety business and technology Journal of Transport History Impressive and thoroughly researched Demonstrates how railroad safety evolved from the intersection of market pressures technology and public sentiment Journal of Southern History

Power and Energy Richard Kong,2015-05-06 Power and Energy contains 86 selected papers from the International Conference on Power and Energy CPE 2014 Shanghai China 29 30 November 2014 and presents a wide range of topics Energy management planning and policy making Energy technologies and environment Energy prospects Conventional and renewable power generation Power system man

Energy Conversion D. Yogi Goswami, Frank Kreith,2017-07-06 This handbook surveys the range of methods and fuel types used in generating energy for industry transportation and heating and cooling of buildings Solar wind biomass nuclear geothermal ocean and fossil fuels are discussed and compared and the thermodynamics of energy conversion is explained Appendices are provided with fully updated data Thoroughly revised this second edition surveys the latest advances in energy conversion from a wide variety of currently available energy sources It describes energy sources such as fossil fuels biomass including refuse derived biomass fuels nuclear solar radiation wind geothermal and ocean then provides the terminology and units used for each energy resource and their equivalence It includes an overview of the steam power cycles gas turbines internal combustion engines hydraulic turbines Stirling engines advanced fossil fuel power systems and combined cycle power plants It outlines the development current use and future of nuclear power

Sustainable Development of Electrical Energy Storage Technologies in Energy Production Grigorios L. Kyriakopoulos,2021-04-23 Nowadays energy production increase has been proven a globally contentious issue as it counts variable stakeholders of competitive interests Such indicative competitive interests are land use for energy crops against maximizing agricultural production yields as well as the gradually

localized trend of energy production from renewables compared to the central overexploitation of fossil fuelled energy sources in mainland grids of energy production In response to this multi parametric contradiction on traditional and novel approaches of energy production this Special Issue aims at attracting researchers whose scientific interest resides in the electrical energy storage EES systems in a wide range of applicability Technological advancements environmental impacts economies of scale achievement active involvement of renewables in EES technologies socio economic impacts upon EES diffusion in regional and globalized contexts of analysis The main limitations and the challenges derived from these scientific approaches will formulate a fresher scientific viewpoint of novel insights upon EES applicability in developed and developing economies accordingly Papers selected for this Special Issue are subject to a rigorous peer review procedure enabling an integrated manner of dissemination upon research advancements and multi disciplinary dynamics accordingly Energy Research Abstracts ,1989

Technology-Supported Teaching and Research Methods for Educators Makewa, Lazarus Ndiku,Ngussa, Baraka Manjale,Kuboja, Joshua Michael,2018-09-28 Technology can be a powerful tool for transforming learning It can help affirm and advance relationships between educators and students reinvent approaches to learning and collaboration shrink long standing equity and accessibility gaps and adapt learning experiences to meet the needs of all learners Technology Supported Teaching and Research Methods for Educators provides innovative insights into the utilization and maintenance of technology supported teaching and research methods for educators The content within this publication represents the work of e learning digital technologies and current issues and trends in the field of teaching and learning in the context of contemporary technologies It is a vital reference source for school educators professionals school administrators academicians researchers and graduate level students seeking coverage on topics centered on the integration of effective technologies that will support educators and students

Low-Carbon Oriented Improvement Strategy for Flexibility and Resiliency of Multi-Energy Systems Yumin Zhang,Lu Zhang,Rufeng Zhang,Hao Wang,Shuai Yao,2024-09-18 Due to the inherent volatility and randomness the increasing share of energy from renewable resources presents a challenge to the operation of multi energy systems with heterogeneous energy carriers such as electricity heat hydrogen etc These factors will make the systems hard to adjust their supply and demand flexibly to maintain energy balance to ensure reliability Further this hinders the development of a low carbon and economically viable energy system By making full use of the synergistic interaction of generation transmission load demand and energy storage a three fold approach focused on quantifying demand flexibility evaluating supply capabilities and enhancing resilience can unlock the flexibility potential across various sectors of new energy systems This approach provides an effective means of facilitating the transition from conventional energy systems to low carbon clean energy oriented paradigms However huge challenges arising from renewable energy pose great obstacles to the aforementioned solution pathway The main objectives of this Research Topic are 1 Develop advanced carbon emission accounting and measurement techniques for emerging multi energy

systems 2 Design effective methods for predicting renewable electricity generation 3 Proposed efficient methods for quantitative assessment of uncertainty from renewables and loads 4 Put forward advanced evaluation optimization and planning strategies incorporating diverse flexibility resources 5 Design multifaceted market mechanisms and collaborative frameworks balancing economics and low carbon footprint 6 Develop operational control and resilience enhancement techniques for distribution networks under large scale distributed energy integration Over 40 Publications / Studies Combined: UAS / UAV / Drone Swarm Technology Research , Over 3 800 total pages Just a sample of the studies publications included Drone Swarms Terrorist and Insurgent Unmanned Aerial Vehicles Use Potentials and Military Implications Countering A2 AD with Swarming Stunning Swarms An Airpower Alternative to Collateral Damage Ideal Directed Energy System To Defeat Small Unmanned Aircraft System Swarms Break the Kill Chain not the Budget How to Avoid U S Strategic Retrenchment Gyges Effect An Ethical Critique of Lethal Remotely Piloted Aircraft Human Robotic Swarm Interaction Using an Artificial Physics Approach Swarming UAS II Swarming Unmanned Aircraft Systems Communication Free Robot Swarming UAV Swarm Attack Protection System Alternatives for Destroyers Confidential and Authenticated Communications in a Large Fixed Wing UAV Swarm UAV Swarm Behavior Modeling for Early Exposure of Failure Modes Optimized Landing of Autonomous Unmanned Aerial Vehicle Swarms Mini Micro and Swarming Unmanned Aerial Vehicles A Baseline Study UAV Swarm Operational Risk Assessment System SmartSwarms Distributed UAVs that Think Command and Control Autonomous UxV s UAV Swarm Tactics An Agent Based Simulation and Markov Process Analysis A Novel Communications Protocol Using Geographic Routing for Swarming UAVs Performing a Search Mission Accelerating the Kill Chain via Future Unmanned Aircraft Evolution of Control Programs for a Swarm of Autonomous Unmanned Aerial Vehicles AFIT UAV Swarm Mission Planning and Simulation System A Genetic Algorithm for UAV Routing Integrated with a Parallel Swarm Simulation Applying Cooperative Localization to Swarm UAVS Using an Extended Kalman Filter A Secure Group Communication Architecture for a Swarm of Autonomous Unmanned Aerial Vehicles Braving the Swarm Lowering Anticipated Group Bias in Integrated Fire Police Units Facing Paramilitary Terrorism Distributed Beamforming in a Swarm UAV Network Integrating UAS Flocking Operations with Formation Drag Reduction Tracking with a Cooperatively Controlled Swarm of GMTI Equipped UAVS Using Agent Based Modeling to Evaluate UAS Behaviors in a Target Rich Environment Experimental Analysis of Integration of Tactical Unmanned Aerial Vehicles and Naval Special Warfare Operations Forces Target Acquisition Involving Multiple Unmanned Air Vehicles Interfaces for Small Unmanned Air Systems ISUS Program Tools for the Conceptual Design and Engineering Analysis of Micro Air Vehicles Architectural Considerations for Single Operator Management of Multiple Unmanned Aerial Vehicles **Smart Healthcare Analytics: State of the Art** Prasant Kumar Pattnaik,Ashlesha Vaidya,Suneeta Mohanty,Satarupa Mohanty,Ana Hol,2021-09-30 This edited book helps researchers and practitioners to understand e health m healthcare architecture through IoT and the state of the art in IoT counter measures

This book provides a comprehensive discussion on a functional framework for IoT based healthcare systems intelligent medicine box RFID technology HMI cognitive interpretation BCI remote health monitoring systems wearable sensors WBAN healthcare analytics machine learning ML techniques for IoT enabled healthcare services security and privacy issues in IoT based healthcare monitoring systems The book discusses integration of IoT with big data and cloud computing for solving several real time problems by the use of smart healthcare applications In these applications the cloud computing provides a common workplace for IoT and big data big data provides data analytics technology and IoT provides the source of data It serves as a reference resource for researchers and practitioners in academia and industry **The Running Athlete** Gian Luigi Canata, Henrique Jones, Werner Krutsch, Patricia Thoreux, Alberto Vascellari, 2022-04-22 This book explores running in a broad range of sport disciplines providing a full spectrum coverage on this extremely important and commonly diffused activity The volume opens with basic information such as biomechanics physiology training principles nutrition and then presents discipline specific aspects of running in several individual and team sports Each chapter is structured organically to offer a uniform and thorough information For each sport the authors examine biomechanical physiological and training specificities as well as injury epidemiology and preventive measures Filling a gap in literature this book appeals not only to sports physicians orthopaedic surgeons trainers coaches fellows and researchers but also to athletes in the various disciplines Written in collaboration with ESSKA it provides a useful toolkit to those readers interested in the state of the art update on the running athlete The Electrical Review ,1963 Advances in Power-to-X: Processes, Systems, and Deployment Valerie Eveloy, Luis M. Romeo, David Parra, Meysam Qadrdan, 2021-06-04

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