



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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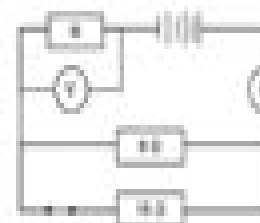
Physical Sciences/P1

10
2017 – 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 REMAINS THE SAME. (1)
10.1.6 Refer to 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 60 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

**Jose M. Lorenzo, Paulo E.S.
Munekata, Francisco J. Barba**



Grade 11 November 2014 Electrical Technology:

GENERAL HINDI, GENERAL KNOWLEDGE & REASONING YCT EXPERT TEAM, 2020 21 UPPCL GENERAL HINDI GENERAL KNOWLEDGE REASONING SOLVED PAPERS *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.

Lithium-Ion Cells Yuriy Koshtyal, Alexander Rumyantsev, 2024-12-24 A large quantity of articles and books have been published on the designated topics. However, most of the literary sources describe the results of scientific articles on the synthesis and study of perspective materials, reveal circuit and design solutions for constructing control systems, and manufacturing batteries, and are educational materials. At the same time, a small part of the published sources includes the following descriptions of materials produced industrially and used in the LIC manufacturing process: demonstrations of the industrially produced LIC energy and power parameters, analysis of the characteristics of manufactured miniature lithium ion cells, solid state LICs, lithium metal cells, and all solid state cells, as well as others. Considering the popularity of the discussed topics, one can hope to find detailed information on the Internet. Indeed, modern search engines make it possible to locate a sufficiently large number of relevant documents. However, while conducting such research, we encountered the following challenges: the data are somewhat fragmented and their systematization and structuring are required; search results do not always meet search queries. For instance, data that were relevant to the topic were found but they did not match the query as accumulated data grow, the search time for new information extends, the choice of search engine and location, different countries affects search results, the data are not indexed in search engines although the correct keywords and website were requested, the information disappears due to website updates, and the found data require additional processing. For example,

many presentations show changes in the shape of the discharge curves depending on the discharge current strength In addition however Ragone plots are necessary for a correct comparison and therefore the mathematical processing of presented results is required Thus this book was written to systematize and structure information on industrially produced materials for LIC manufacturing and industrially produced and promising LICs and lithium metal rechargeable cells for various applications

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

2nd 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

Diesel Emissions and Their Control, 2nd Edition W. Addy Majewski, Hannu Jääskeläinen, 2023-12-20 Engineers applied scientists students and individuals working to reduce emissions and advance diesel engine technology will find the second edition of Diesel Emissions and Their Control to be an indispensable reference

Whether readers are at the outset of their learning journey or seeking to deepen their expertise this comprehensive reference book caters to a wide audience In this substantial update to the 2006 classic the authors have expanded the coverage of the latest emission technologies With the industry evolving rapidly the book ensures that readers are well informed about the most recent advances in commercial diesel engines providing a competitive edge in their respective fields The second edition has also streamlined the content to focus on the most promising technologies This book is rooted in the wealth of information available on DieselNet.com where the Technology Guide papers offer in depth insights Each chapter includes links to relevant online materials granting readers access to even more expertise and knowledge The second edition is organized into six parts providing a structured journey through every aspect of diesel engines and emissions control Part I A foundational exploration of the diesel engine combustion and essential subsystems Part II An in depth look at emission characterization health and environmental impacts testing methods and global regulations Part III A comprehensive overview of diesel fuels covering petroleum diesel alternative fuels and engine lubricants Part IV An exploration of engine efficiency and emission control technologies from exhaust gas recirculation to engine control Part V The latest developments in diesel exhaust aftertreatment encompassing catalyst technologies and particulate filters Part VI A historical journey through the evolution of diesel engine technology with a focus on heavy duty engines in the North American market ISBN 9781468605693 ISBN 9781468605709 ISBN 9781468605716 DOI 10.4271/9781468605709

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 machining ultrasonic machining electron beam machining electrochemical grinding photochemical machining process abrasive assisted micromachining abrasive water jet micromachining electro discharge machining electrochemical

micromachining ultrasonic micromachining laser surface modification techniques ion beam processes glass workpiece micromachining using electrochemical discharge machining abrasive water jet machining ultrasonic vibration assisted micromachining laser micromachining s role in improving tool wear resistance stress and surface roughness in high strength alloys abrasive flow finishing process elastic emission machining magnetic abrasive finishing process genetic algorithm for multi objective optimization in machining machining of Titanium Grade 2 and P 20 tool steel and wet bulk micromachining in MEMS fabrication Audience The book is intended for a wide audience including mechanical manufacturing biomedical and industrial engineers and R D researchers involved in advanced machining and micromachining technology **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 **Clean Disruption of Energy and Transportation**

Tony Seba, 2014-06-27 The industrial age of energy and transportation will be over by 2030 Maybe before Exponentially improving technologies such as solar electric vehicles and autonomous self driving cars will disrupt and sweep away the energy and transportation industries as we know it The same Silicon Valley ecosystem that created bit based technologies that have disrupted atom based industries is now creating bit and electron based technologies that will disrupt atom based energy industries Clean Disruption projections based on technology cost curves business model innovation as well as product innovation show that by 2030 All new energy will be provided by solar or wind All new mass market vehicles will be electric All of these vehicles will be autonomous self driving or semi autonomous The new car market will shrink by 80% Even assuming that EVs don't kill the gasoline car by 2030 the self driving car will shrink the new car market by 80% Gasoline will be obsolete Nuclear is already obsolete Up to 80% of highways will be redundant Up to 80% of parking spaces will be redundant The concept of individual car ownership will be obsolete The Car Insurance industry will be disrupted The Stone Age did not end because we ran out of rocks It ended because a disruptive technology ushered in the Bronze Age The era of centralized command and control extraction resource based energy sources oil gas coal and nuclear will not end because we run out of petroleum natural gas coal or uranium It will end because these energy sources the business models they employ and the products that sustain them will be disrupted by superior technologies product architectures and business models This is a technology based disruption reminiscent of how the cell phone Internet and personal computer swept away industries such as landline telephony publishing and mainframe computers Just like those technology disruptions flipped the architecture of information and brought abundant cheap and participatory information the clean disruption will flip the architecture of energy and bring abundant cheap and participatory energy Just like those previous technology disruptions the Clean Disruption is inevitable and it will be swift Cyberspace in Peace and War Martin Libicki, 2016-10-15 This book is written to be a comprehensive guide to cybersecurity and cyberwar policy and strategy developed for a one or two semester class for students of public policy including political science law business etc Although written from a U S perspective most of its contents are globally relevant It is written essentially in four sections The first chapters 1 5 describes how compromises of computers and networks permit unauthorized parties to extract information from such systems cyber espionage and or to force these systems to misbehave in ways that disrupt their operations or corrupt their workings The section examines notable hacks of systems fundamental challenges to cybersecurity e g the lack of forced entry the measure countermeasure relationship including the role of malware and various broad approaches to cybersecurity The second chapters 6 9 describes what government policies can and as importantly cannot be expected to do to improve a nation's cybersecurity thereby

leaving leave countries less susceptible to cyberattack by others Among its focus areas are approaches to countering nation scale attacks the cost to victims of broad scale cyberespionage and how to balance intelligence and cybersecurity needs The third chapters 10 15 looks at cyberwar in the context of military operations Describing cyberspace as the 5th domain of warfare feeds the notion that lessons learned from other domains e g land sea apply to cyberspace In reality cyberwar a campaign of disrupting corrupting computers networks is quite different it rarely breaks things can only be useful against a sophisticated adversary competes against cyber espionage and has many first strike characteristics The fourth chapters 16 35 examines strategic cyberwar within the context of state on state relations It examines what strategic cyberwar and threats thereof can do against whom and how countries can respond It then considers the possibility and limitations of a deterrence strategy to modulate such threats covering credibility attribution thresholds and punishment as well as whether denial can deter It continues by examining sub rosa attacks where neither the effects nor the attacker are obvious to the public the role of proxy cyberwar the scope for brandishing cyberattack capabilities including in a nuclear context the role of narrative and signals in a conflict in cyberspace questions of strategic stability and norms for conduct in cyberspace particularly in the context of Sino U S relations and the role played by international law The last chapter considers the future of cyberwar

Food Processing Technology P.J. Fellows, 2022-06-18 Food Processing Technology Principles and Practice Fifth Edition includes emerging trends and developments in food processing The book has been fully updated to provide comprehensive up to date technical information For each food processing unit operation theory and principles are first described followed by equipment used commercially and its operating conditions the effects of the operation on micro organisms and the nutritional and sensory qualities of the foods concerned Part I describes basic concepts Part II describes operations that take place at ambient temperature Part III describes processing using heat Part IV describes processing by removing heat and Part V describes post processing operations This book continues to be the most comprehensive reference in the field covering all processing unit operations in a single volume The title brings key terms and definitions sample problems recommended further readings and illustrated processes Presents current trends on food sustainability environmental considerations changing consumer choices reduced packaging and energy use and functional and healthy plant based foods Includes highly illustrated line drawings and or photographs to show the principles of equipment operation and or examples of equipment that is used commercially Contains worked examples of common calculations Age of Auto Electric Matthew N. Eisler, 2022-12-06 The electric vehicle revival reflects negotiations between public policy which promotes clean fuel efficient vehicles and the auto industry which promotes high performance vehicles Electric cars were once as numerous as internal combustion engine cars before all but vanishing from American roads around World War I Now we are in the midst of an electric vehicle revival and the goal for a sustainable car seems to be within reach In Age of Auto Electric Matthew N Eisler shows that the halting development of the electric car in the intervening decades was a consequence of tensions between

environmental energy and economic policy imperatives that informed a protracted reappraisal of the automobile system. These factors drove the electric vehicle revival, argues Eisler, hastening automaking's transformation into a science-based industry in the process. Challenging the common assumption that the electric vehicle revival is due to the development of better batteries, *Age of Auto Electric* instead focuses on changing environmental and socioeconomic conditions, energy and environmental policies, systems of energy conversion and industrial production, and innovation practices that affected the prevalence and popularity of electric vehicles in recent decades. Eisler describes a world in transition from legacy to alternative energy conversion systems and the promises, compromises, new problems, and unintended consequences that enterprise has entailed.

Advanced Energy Storage Technologies and Their Applications (AESA) Rui Xiong, Hailong Li, Joe (Xuan) Zhou, 2018-02-21. This book is a printed edition of the Special Issue *Advanced Energy Storage Technologies and Their Applications AESA* that was published in *Energies*.

Adapt and Be Adept Terry L. Anderson, 2021-04-01. How can markets help us adapt to the challenges of climate change? Editor Terry L. Anderson brings together this collection of essays featuring the work of nine leading policy analysts who argue that market forces are just as important as government regulation in shaping climate policy and should be at the heart of our response to helping societies adapt to climate change. Anderson notes in his introduction that most current climate policies such as the Paris Agreement require hard-to-enforce collective action and focus on reducing or mitigating greenhouse gases rather than adapting to their negative effects. Adaptive actions can typically deliver much more faster and more cheaply than any realistic climate policy. The authors tackle a range of issues: the hidden costs of renewable energy sources; the political obstacles surrounding climate change policy; insurance and financial instruments for pricing risk of exposure to the effects of climate change; and more. Reliance on emerging renewable energies and a carbon tax are not enough to prevent the effects of global warming, they argue. We must encourage more private action and market incentives to adapt to a rapidly changing climate.

Federal Register, 2012-11.

The Lightest Metals Timothy P. Hanusa, 2015-11-16. The first seven metals in the periodic table are lithium, beryllium, sodium, magnesium, aluminum, potassium, and calcium, known collectively as the lightest metals. The growing uses of these seven elements are enmeshing them ever more firmly into critical areas of 21st-century technology, including energy storage, catalysis, and various applications of nanoscience. This volume provides comprehensive coverage of the fundamentals and recent advances in the science and technology of the lightest metals. Opening chapters of the book describe major physical and chemical properties of the metals, their occurrence, and issues of long-term availability. The book goes on to discuss a broad range of chemical features, including low oxidation state chemistry, organometallics, metal-centered NMR spectroscopy, and cation interactions. Current and emerging applications of the metals are presented, including lithium-ion battery technology, hydrogen storage chemistry, superconductor materials, transparent ceramics, nano-enhanced catalysis, and research into photosynthesis and photoelectrochemical cells. The content from this book will be added online to the

Encyclopedia of Inorganic and Bioinorganic Chemistry <http://www.wileyonlinelibrary.com/ref/eibc> **Fermentative Hydrogen Production** Yanan Yin, Jianlong Wang, 2024-07-30 Fermentative Hydrogen Production From Fundamentals and Processes is a comprehensive examination of the theoretical and operational aspects of dark fermentative production of hydrogen. The book presents the latest technological developments, analyzes advantages and challenges, and discusses the potential for the maturity of dark fermentation. Part One analyzes the various technologies for hydrogen production, purification, storage, applications, and safety. In Part Two, first to third generation feedstocks are reviewed, as well as co-fermentation and solid and liquid wastes. Part Three examines the typical hydrogen-producing microorganisms in both pure and mixed cultures, along with sequencing techniques, pretreatment considerations, and engineering options. Part Four discusses influencing factors such as operational parameters, promoters, inhibitors, and has a dedicated section on the effects of iron. Finally, Part Five directly compares dark hydrogen with other hydrogen production technologies through life cycle environmental impact assessments, highlighting bottlenecks and challenges in scaling up these technologies. Critically reviews the fundamentals and environmental impacts of biological hydrogen production technologies. Evaluates and compares various feedstocks for biohydrogen production, including co-fermentation of different feedstocks. Examines the use of pure and mixed cultures. Provides case studies with real-world applications of the technologies discussed in the book.

Automotive Steels Radhakanta Rana, Shiv Brat Singh, 2016-11-26 Automotive Steels: Design, Metallurgy, Processing, and Applications explores the design, processing, metallurgy, and applications of automotive steels. While some sheet steels are produced routinely in high volume today, there have been significant advances in the use of steel in the automotive industry. This book presents these metallurgical and application aspects in a way that is not available in the current literature. The editors have assembled an international team of experts who discuss recent developments and future prospects for automotive steels, compiling essential reading for both academic and industrial metallurgists, automotive design engineers, and postgraduate students attending courses on the metallurgy of automotive materials. Presents recent developments on the design, metallurgy, processing, and applications of automotive steels. Discusses automotive steels that are currently in the early stages of research, such as low density and high modulus steels that are driving future development. Covers traditional steels, advanced high strength steels, elevated Mn steels, and ferrous composite materials. **Innovation-Based Development of the Mineral Resources Sector: Challenges and Prospects**

Vladimir Litvinenko, 2018-10-11 Innovation Based Development of the Mineral Resources Sector: Challenges and Prospects contains the contributions presented at the XI Russian German Raw Materials Conference, Potsdam, Germany, 7-8 November 2018. The Russian German Raw Materials Conference is held within the framework of the Permanent Russian German Forum on the Issues of the Use of Raw Materials, which has as goals to develop new approaches to effectively use energy, mineral, and renewable natural resources and to initiate cooperation in the field of sustainability and environmental protection. The contributions cover current trends in the

development of raw materials markets and the world economy the state of the environment and new technologies applied in the sector effectively responding to modern challenges The 63 accepted papers are grouped into four main sections Mineral exploration and mining Mining services Processing of raw materials Other Innovation Based Development of the Mineral Resources Sector Challenges and Prospects will be of interest to academics and researchers involved in the mineral resources sector but also to professionals in the public foreign trade and education fields and representatives of major corporations and professional associations

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