

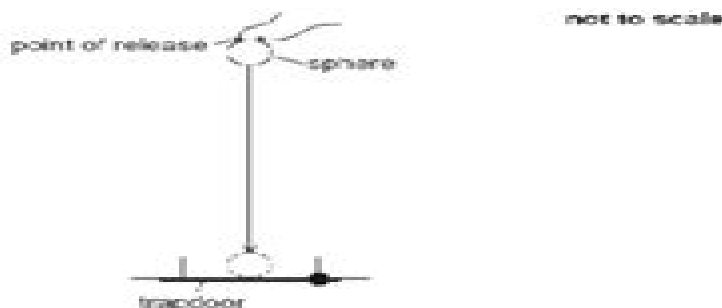
SL Paper 3

An experiment to find the internal resistance of a cell of known emf is to be set. The following equipment is available:



- Draw a suitable circuit diagram that would enable the internal resistance to be determined. [1]
- It is noticed that the resistor gets warmer. Explain how this would affect the calculated value of the internal resistance. [3]
- Outline how using a variable resistance could improve the accuracy of the value found for the internal resistance. [2]

To determine the acceleration due to gravity, a small metal sphere is dropped from rest and the time it takes to fall through a known distance and open a trapdoor is measured.



The following data are available:

Diameter of metal sphere	$= 12.0 \pm 0.1 \text{ mm}$
Distance between the point of release and the trapdoor	$= 654 \pm 2 \text{ mm}$
Measured time for fall	$= 0.363 \pm 0.002 \text{ s}$

- Determine the distance fallen, in m, by the centre of mass of the sphere including an estimate of the absolute uncertainty in your answer. [2]
- Using the following equation [4]

$$\text{acceleration due to gravity} = \frac{2 \times \text{distance fallen by centre of mass of sphere}}{(\text{measured time to fall})^2}$$

calculate, for these data, the acceleration due to gravity including an estimate of the absolute uncertainty in your answer.

Paper 3 Chem Sl 2013

A. Pandikumar, Perumal Rameshkumar

Paper 3 Chem SI 2013:

Studies in Natural Products Chemistry Atta-ur Rahman, 2018-04-17 *Studies in Natural Products Chemistry* Volume 57 covers rapid developments in spectroscopic techniques and advances in high throughput screening techniques that have made it possible to rapidly isolate and determine the structures and biological activity of natural products in new drug development. The series also covers the synthesis of the medicinal properties of natural products providing cutting edge accounts of fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products. Specific sections in this release cover broad spectrum health protection of extra virgin olive oil compounds synthesis of cardiac steroids and their role on heart failure and cancer and more. Focuses on the chemistry of bioactive natural products. Contains contributions by leading authorities in the field. Presents sources of new pharmacophores.

Dynamics in Logistics Michael Freitag, Hans-Dietrich Haasis, Herbert Kotzab, Jürgen Pannek, 2020-04-15 Since 2007 the biennial International Conferences on Dynamics in Logistics LDIC offers researchers and practitioners from logistics operations research production industrial and electrical engineering as well as from computer science an opportunity to meet and to discuss the latest developments in this particular research domain. From February 12th to 14th 2020 for the seventh time LDIC 2020 is held in Bremen Germany. Similar to its six predecessors the Bremen Research Cluster for Dynamics in Logistics LogDynamics organizes this conference. The spectrum of topics reaches from the dynamic modeling planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber physical production and logistics systems. LDIC 2020 provides a forum for the discussion of advances in that matter. The conference program consists of three invited keynote speeches and 51 papers selected by a severe double blind reviewing process. Within these proceedings all the papers are published. By this the proceedings give an interdisciplinary outline on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

Graphene-Based Electrochemical Sensors for Biomolecules A. Pandikumar, Perumal Rameshkumar, 2018-10-22 *Graphene Based Electrochemical Sensors for Biomolecules* presents the latest on these nanomaterials that have gained a lot of attention based on their unique properties of high mechanical flexibility large surface area chemical stability superior electric and thermal conductivities that render them great choices as alternative electrode materials for electrochemical energy storage and sensor applications. The hybridization of graphene with other nanomaterials induces a synergetic effect leading to the improvement in electrical conductivity stability and an enhancement of the electrocatalytic activity of the new nanocomposite material. This book discusses the electrochemical determination of a variety of biomolecules using graphene based nanocomposite materials. Finally recent progress in the development of electrochemical sensors using graphene based nanocomposite materials and perspectives on future opportunities in sensor research and development are discussed in detail. Covers the importance of detecting biomolecules and the application of

graphene and its nanocomposite materials in the detection of a wide variety of bioanalytes Presents easily understood fundamentals of electrochemical sensing systems and the role of graphene based nanocomposite materials in research and development

Carbon Nanomaterials Based on Graphene Nanosheets Ling Bing Kong, 2017-03-27 Since the discovery of graphene it has become one of the most widely and extensively studied materials This book aims to summarize the progress in synthesis processing characterization and applications of a special group of nanocarbon materials derived from graphene or graphene related derivatives by using various strategies in different forms More specifically three forms of macrosized materials are presented i e one dimension or 1D fibers wires yarns strands etc two dimension or 2D films membranes papers sheets etc and three dimension or 3D bulk hydrogels aerogels foams sponges etc Seven chapters are included with the first chapter serving to introduce the concept definition and nomenclature of graphene graphene oxide and their derivatives The main topics are covered in Chapters 2-7 Although they have coherent connections each chapter of them is designed such that they can be studied independently The target readers of this book include undergraduate students postgraduate students researchers designers engineers professors and program project managers from the fields of materials science and engineering applied physics chemical engineering biomaterials materials manufacturing and design institutes and research funding agencies

Biorefinery Production Technologies for Chemicals and Energy Arindam Kuila, Mainak Mukhopadhyay, 2020-10-21 This book covers almost all of the diverse aspects of utilizing lignocellulosic biomass for valuable biorefinery product development of chemicals alternative fuels and energy The world has shifted towards sustainable development for the generation of energy and industrially valuable chemicals Biorefinery plays an important role in the integration of conversion process with high end equipment facilities for the generation of energy fuels and chemicals The book is divided into four parts The first part Basic Principles of Biorefinery covers the concept of biorefinery its application in industrial bioprocessing the utilization of biomass for biorefinery application and its future prospects and economic performance The second part Biorefinery for Production of Chemicals covers the production of bioactive compounds gallic acid C4 C5 and C6 compounds etc from a variety of substrates The third part Biorefinery for Production of Alternative Fuel and Energy covers sustainable production of bioethanol biodiesel and biogas from different types of substrates The last part of this book discusses sequential utilization of wheat straw material balance and biorefinery approach The approaches presented in this book will help readers users from different areas like process engineering and biochemistry to plan integrated and inventive methods to trim down the expenditure of the industrial manufacture process to accomplish cost effective feasible products in biorefinery

Food Processing Technologies Amit K. Jaiswal, 2016-08-05 The processing of food generally implies the transformation of the perishable raw food to value added products It imparts benefits such as the destruction of surface microflora and inactivation of deleterious enzymes such as peroxidase leading to a greater shelf life of the food It also enhances color and texture while maintaining quality of products and makes them edible

However it also has an inevitable impact on nutritional quality attributes such as increase or decrease in certain vitamins and bioactive metabolites among others Food Processing Technologies Impact on Product Attributes covers a range of food processing technologies and their effect on various food product attributes such as bioactive compounds safety and sensory and nutritional aspects of the food upon processing There are eight major parts in the book Part I covers the conventional processing technologies Parts II III IV and V deal with various novel processing technologies including impingement processing technologies electro magnetic processing technologies physico mechanical processing technologies and electro technologies Part VI introduces chemical processing technologies Part VII comprise irradiation processing technology and the final part is focused on biological processing technology detailing the application of enzymes in food processing Numerous studies were carried out to find the impact of these processing technologies on various aspects of food and associated health promotion properties Both positive and negative results were obtained based on nature of foods processing type and duration of processing and this book covers these results in depth

Polymer Materials for Energy and Electronic Applications Huisheng Peng,Xuemei Sun,Wei Weng,Xin Fang,2016-09-01 Polymer Materials for Energy and Electronic Applications is among the first books to systematically describe the recent developments in polymer materials and their electronic applications It covers the synthesis structures and properties of polymers along with their composites In addition the book introduces and describes four main kinds of electronic devices based on polymers including energy harvesting devices energy storage devices light emitting devices and electrically driving sensors Stretchable and wearable electronics based on polymers are a particular focus and main achievement of the book that concludes with the future developments and challenges of electronic polymers and devices Provides a basic understanding on the structure and morphology of polymers and their electronic properties and applications Highlights the current applications of conducting polymers on energy harvesting and storage Introduces the emerging flexible and stretchable electronic devices Adds a new family of fiber shaped electronic devices

Handbook of Reagents for Organic Synthesis André B. Charette,2015-09-28 Heteroarenes are among the most prevalent structural units in natural products pharmaceuticals agrochemicals and other compounds of scientific or commercial interest In the last decade a broad range of novel synthetic methods has been developed to not only facilitate construction of the heteroarene motif but to enable its modification through direct C H functionalization This Handbook describes 117 key reagents for selective heteroarene functionalization reactions including both traditional and transition metal catalyzed C H functionalization Since these reactions typically involve one heteroarene a coupling partner and a catalyst the handbook not only focuses on the catalyst itself but also contains other key reaction species All the information compiled in this volume is also available in electronic format on Wiley Online Library The 117 reagents represented here are but a small fraction of the ca 5 000 reagents available in the electronic Encyclopedia of Reagents for Organic Synthesis e EROS e EROS offers various search interfaces to locate reagents of interest including

chemical structure substructure and reactions search modes e EROS is updated regularly with new and updated entries

Phytobiont and Ecosystem Restitution Vivek Kumar,Manoj Kumar,Ram Prasad,2018-12-31 This book offers present day retrospectives and future perspectives on phytobiont studies in the context of phyto micro restitution filling some of the information gaps in this promising research field It discusses several ecosystem restitution strategies using dissimilar groups of microbes alone or in association with plants as well as advances in metagenomics technology for studying in situ micro and macro communities in contaminated soil It addresses topics such as the status quo and the perspectives of microbial researchers and scientists foresters students environmentalists agriculturists and professional engineers The rising pollution levels caused by xenobiotics is one of the biggest problems of our times and as such the book comprehensively elaborates the latest research in this field and describes how the issue can be tackled using micro organisms With detailed diagrams and illustrations the book is a valuable resource for experts and novices in the field of microbial bioremediation phyto

bioremediation and environmental microbiology **Advanced Fibrous Composite Materials for Ballistic Protection** Xiaogang Chen,2016-01-21 Advanced Fibrous Composite Materials for Ballistic Protection provides the latest information on ballistic protection a topic that remains an important issue in modern times due to ever increasing threats coming from regional conflicts terrorism and anti social behavior The basic requirements for ballistic protection equipment are first and foremost the prevention of a projectile from perforating the reduction of blunt trauma to the human body caused by ballistic impact the necessity that they are thermal and provide moisture comfort and that they are lightweight and flexible to guarantee wearer s mobility The main aim of this book is to present some of the most recent developments in the design and engineering of woven fabrics and their use as layering materials to form composite structures for ballistic personal protection Chapter topics include High Performance Ballistic Fibres Ultra High Molecular Weight Polyethylene UHMWPE Ballistic Damage of Hybrid Composite Materials Analysis of Ballistic Fabrics and Layered Composite Materials and Multi Scale Modeling of Polymeric Composite Materials for Ballistic Protection Contributions from leading experts in the field Cutting edge developments on the engineering of ballistic materials Comprehensive analysis of the development and uses of advanced fibrous composite materials *Handbook of Industrial Chemistry and Biotechnology* James A. Kent,Tilak V.

Bommaraju,Scott D. Barnicki,2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written

by individuals who are embedded in the industries whereof they write so knowledgeably Forgotten People, Forgotten Diseases Peter J. Hotez, 2021-09-17 The neglected tropical diseases NTDs are among the most common infections of the world's poorest people and have profound ramifications on affected populations including physical, mental, social, and economic. This third edition of *Forgotten People, Forgotten Diseases* coincides with the third decade of the NTDs movement, which has given access to essential NTD preventative treatments and medications to more than 1 billion people. Professor Peter Hotez, MD, PhD, one of the founders of the NTD movement, discusses how the NTD space evolved and control was implemented against these ancient scourges through alliances between nongovernmental development organizations and private-public partnerships. *Forgotten People, Forgotten Diseases* also reports on the health and economic effects of the NTDs and the challenges of measuring diseases that do not always kill but adversely affect productivity, child development, pregnancy outcome, and economic development. Lays a roadmap for continued control of existing and newly identified NTDs and spotlights potential opportunities for reducing global poverty and repairing the world. Describes a global initiative to provide annual mass drug administration for more than one billion people affected by NTDs. Highlights the role of innovation and product development partnerships for new treatments and vaccines. Explains how science and vaccine diplomacy ensure that a new generation of biotechnologies reaches the world's poorest people. *Forgotten People, Forgotten Diseases* remains an essential resource for anyone seeking insight into global advocacy, coordination, and mobilization of resources to combat NTDs and continues to tell the story of the world's people who live in extreme poverty and what it means for them to live with these devastating diseases. Like Dr. Hotez, I have struggled with how to best get the word out about our need to address NTDs and their link to poverty. Now he has provided us all with a remarkable tool: a book for people without an extensive scientific or medical background. *Forgotten People, Forgotten Diseases* is an excellent one-stop primer about NTDs. Soledad O'Brien, Host, *Matter of Fact with Soledad O'Brien* *Mechatronics Engineering, Computing and Information Technology* X.D. Xu, Bin Li, Q.M. Lu, X.Y. Yan, J.L. Li, 2014-05-23 Selected peer-reviewed papers from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014, April 9-10, 2014, Shanghai, China **Quarterly Journal of the Chemical Society of London** Chemical Society (Great Britain), 1970 **Lignocellulosic Biomass and Enzymes** Rajeev Kumar Kapoor, Kalavathy Rajan, 2025-05-26 This book aims to offer comprehensive insights into biomass pretreatment and utilization for recovering value-added products. The book focuses on various topics including lignocellulosic biorefinery, challenges, lignolytic enzymes, bioprocess advancements, and emerging industrial applications. It also serves as a knowledge repository on the use of lignocellulosic biomass and enzymes in biotechnological processes: bio-composites development, pulp and paper processing, bio-energy production, biomass detoxification, and more. Chapters of this book cover a broad focus on enzyme technologies, treatment strategies, and the application of industrially important enzymes. Chapters cover the unique features like the focus on economically feasible treatment strategies and highlight the book's emphasis on practicality. The

book includes aspects of microbial enzymes and biomass overview advancements in biomass pretreatment metabolic and genetic engineering approaches improved process and recovery strategies eco friendly bio bleaching in the pulp and paper industry bioethanol production and lignocellulose biorefinery This book is targeted towards a diverse audience including undergraduates postgraduates and researchers in academia and industries

Organic Ligands in Marine Trace Metal Biogeochemistry Kristen N. Buck, Maeve C. Lohan, Sylvia G. Sander, Christel Hassler, Ivanka Pižeta, 2018-01-11 This research topic highlights the most recent accomplishments of a Scientific Committee on Oceanic Research SCOR Working Group SCOR WG 139 Organic Ligands A Key Control on Trace Metal Biogeochemistry in the Ocean

Biorefineries Nasib Qureshi, David B. Hodge, Alain Vertes, 2014-08-19 Biorefineries outlines the processes and steps to successfully scale up production of two types of biofuels butanol and ethanol from cellulosic residues for commercial purposes It covers practical topics including biomass availability pretreatment fermentation and water recycling as well as policy and economic factors This reflects the unique expertise of the editor team whose backgrounds range from wood and herbaceous feedstocks to process economics and industrial expertise The strategies presented in this book help readers to design integrated and efficient processes to reduce the cost of production and achieve an economically viable end product Outlines the economic benefits of designing a single operational process Includes all currently available processes on pretreatment fermentation and recovery Covers all pretreatment fermentation and product recovery options Focuses on biofuels but acts as a stepping stone to develop cost efficient processes for an array of commodity chemicals

Green Chemistry for Sustainable Textiles Nabil Ibrahim, Chaudhery Mustansar Hussain, 2021-07-21 Green Chemistry for Sustainable Textiles Modern Design and Approaches provides a comprehensive survey of the latest methods in green chemistry for the reduction of the textile industry s environmental impact In recent years industrial R D has been exploring more sustainable chemicals as well as eco friendly technologies in the textile wet processing chain leading to a range of new techniques for sustainable textile manufacture This book discusses and explores basic principles of green chemistry and their implementation along with other aspects of cleaner production strategies as well as new and emerging textile technologies providing a comprehensive reference for readers at all levels Potential benefits to industry from the techniques covered in this book include Savings in water energy and chemical consumption waste minimization as well as disposal cost reduction and production of high added value sustainable textile products to satisfy consumer demands for comfort safety aesthetic and multi functional performance properties Innovative emerging methods are covered as well as popular current technologies creating a comprehensive reference that facilitates comparisons between methods Evaluates the fundamental green chemistry principles as drivers for textile sustainability Explains how and why to use renewable green chemicals in the textile wet processing chain

Photon-Working Switches Yasushi Yokoyama, Keitaro Nakatani, 2017-05-29 This book focuses on photoswitches The objective of the book is to introduce researchers and graduate course students who are interested in photon working

switches not only to the fundamentals but also to the latest research being carried out in this field Light can reach a target substrate without any physical contact to deliver energy The energy can induce changes in the structure of the molecules included in the substrate so that its properties and functions are made switchable by light irradiation When a substrate is able to revert to its original state this system can be regarded as a photon working switch The terms photon working switches or photoswitches are almost equivalent in meaning to photochromism however they focus on the switching of functions of chemical species rather than their reversible transformation Most of the authors of this volume are members of PHENICS an international research group on organic molecular photoswitches composed of research institutions from France Japan Russia China and Germany Since its inception in 2008 PHENICS has promoted active research to develop the field This book commemorates the group's eighth year of collaborative research

Geologic Carbon Sequestration V.
Vishal,T.N. Singh,2016-05-11 This exclusive compilation written by eminent experts from more than ten countries outlines the processes and methods for geologic sequestration in different sinks It discusses and highlights the details of individual storage types including recent advances in the science and technology of carbon storage The topic is of immense interest to geoscientists reservoir engineers environmentalists and researchers from the scientific and industrial communities working on the methodologies for carbon dioxide storage Increasing concentrations of anthropogenic carbon dioxide in the atmosphere are often held responsible for the rising temperature of the globe Geologic sequestration prevents atmospheric release of the waste greenhouse gases by storing them underground for geologically significant periods of time The book addresses the need for an understanding of carbon reservoir characteristics and behavior Other book volumes on carbon capture utilization and storage CCUS attempt to cover the entire process of CCUS but the topic of geologic sequestration is not discussed in detail This book focuses on the recent trends and up to date information on different storage rock types ranging from deep saline aquifers to coal to basaltic formations

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