

- (b) An empty bottle is corked when air inside is at 150°C and at standard atmospheric pressure. Calculate the temperature to which the air must be heated for the cork to blow out, if it is able to blow out when the pressure of the air exceeds 1.3 times the standard atmospheric pressure. State the assumptions you have made. (07 marks)
5. (a) Describe the composition of the ${}_{11}^{23}\text{Na}$ atom. (03 marks)
- (b) A radioactive nuclide emits an alpha particle and turns into another nuclide Y.
- Write a balanced equation to represent this nuclear change. (03 marks)
 - How would the nuclide X be affected if a beta particle was emitted instead of an alpha particle. (02 marks)
 - Compare the nature of and properties of an alpha particle with those of a beta particle (04 marks)
- (c) Describe briefly how X-rays are produced. (Diagram of the X-ray tube is not required). (04 marks)
6. (a) List three differences and three similarities between sound waves and light waves. (06 marks)
- (b)



The above diagram shows circular waves propagating towards a plane reflector.

- Draw a diagram to show how the waves will be reflected. (02 marks)
 - Calculate the frequency of the waves if their velocity and wavelength are 5.0 m s^{-1} and 0.5 m respectively. (03 marks)
- (c) A man standing midway between two cliffs makes a loud sound. He hears the first echo after 3 s. Calculate the distance between the two cliffs. (05 marks)
7. (a) Describe a simple method of measuring the refractive index of glass in form of a glass block. (06 marks)
- (b) (i) Explain, with the aid of a diagram, the term critical angle. (04 marks)
- (ii) Light of the same wavelength is incident at an angle, i , on a glass prism. The light is refracted and follows the path shown in the figure below.



Find the angle of incidence, i .

(06 marks)

8. (a) Give the advantages of alternating current over direct current in power transmission. (02 marks)
- (b) Describe with the aid of a diagram, the construction and action of a transformer. (05 marks)

Physic Paper2 Grd1

**Kasthurirangan
Gopalakrishnan, Wynand JvdM
Steyn, John Harvey**

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Content Area Lessons Using Graphic Organizers Grd 1 Debra Housel, 2008 Teaching lessons that meet the standards for your grade level in reading writing science geography history and math Philosophical Transactions of the Royal Society of London ,1912 *Philosophical Transactions of the Royal Society of London* Royal Society (Great Britain), 1912 Contains papers on mathematics or physics Continued by Philosophical transactions Physical sciences and engineering and Philosophical transactions Mathematical physical and engineering sciences **Nuclear Science Abstracts** ,1967-11

High Performance Computing Michela Taufer, Bernd Mohr, Julian M. Kunkel, 2016-10-05 This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016 conference in Frankfurt Germany in June 2016 The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book They stem from the following workshops Workshop on Exascale Multi Many Core Computing Systems E MuCoCoS Second International Workshop on Communication Architectures at Extreme Scale ExaComm HPC I O in the Data Center Workshop HPC IODC International Workshop on OpenPOWER for HPC IWOPH Workshop on the Application Performance on Intel Xeon Phi Being Prepared for KNL and Beyond IXPUG Workshop on Performance and Scalability of Storage Systems WOPSSS and International Workshop on Performance Portable Programming Models for Accelerators P3MA *Energy and the New Reality 2* L. D. Danny Harvey, 2010-08-12 Transforming our energy supplies to be more sustainable is seen by many to be the biggest challenge of our times In this comprehensive textbook L D Danny Harvey sets out in unprecedented detail the path we must take to minimize the effects that the way we harness energy will have on future climate change The book opens by highlighting the importance of moving to low carbon technologies for generation then moves on to explain the functioning potential and social environmental issues around solar energy wind energy biomass energy geothermal energy hydroelectric power ocean energy nuclear energy It also covers the options for carbon capture and storage and the contexts in which low carbon energy can best be utilized potential for community integrated systems and the hydrogen economy The book closes with scenarios that combine the findings from its companion volume concerning the potential for limiting future energy demand with the findings from this volume concerning the cost and potential of C free energy systems to generate scenarios that succeed in limiting future atmospheric CO₂ concentration to no more than 450 ppmv Detailed yet accessible meticulously researched and reviewed this work constitutes an indispensable textbook and reference for students and practitioners in sustainable energy and engineering Papers Presented at ... Symposium on Thermophysical Properties ,1962 Software Technologies: Applications and Foundations Manuel Mazzara, Iulian Ober, Gwen Salaün, 2018-12-06 This book contains the thoroughly refereed technical papers presented in eight workshops collocated with the International Conference on Software Technologies Applications and Foundations STAF 2018 held in Toulouse France in June 2018 The 65 full papers presented were carefully reviewed and selected from 120 submissions The

events whose papers are included in this volume are CoSim CPS 2018 2nd International Workshop on Formal Co Simulation of Cyber Physical Systems DataMod 2018 7th International Symposium From Data to Models and Back FMIS 2018 7th International Workshop on Formal Methods for Interactive Systems FOCLASA 2018 16th International Workshop on Foundations of Coordination Languages and Self adaptive Systems GCM 2018 9th International Workshop on Graph Computation Models MDE DeRun 2018 1st International Workshop on Model Driven Engineering for Design Runtime Interaction in Complex Systems MSE 2018 3rd International Workshop on Microservices Science and Engineering SecureMDE 2018 1st International Workshop on Security for and by Model Driven Engineering **Progress in**

International Research on Thermodynamic and Transport Properties Eric F. Lye, Joseph F. Masi, Roger Eichorn, 2013-10-22 Progress in International Research on Thermodynamic and Transport Properties covers the proceedings of the 1962 Second Symposium by the same title held at Purdue University and the Thermophysical Properties Research Center This symposium brings together theoretical and experimental research works on the thermodynamic and transport properties of gases liquids and solids This text is organized into nine parts encompassing 68 chapters that cover topics from thixotropy to molecular orbital calculations The first three parts review papers on theoretical experimental and computational studies of the various aspects of thermodynamic properties These parts discuss the principles of phase equilibria throttling volume heat capacity steam volumetric behavior enthalpy and density The subsequent part highlights the theoretical evaluations of transport properties such as viscosity diffusion and conductivity as well as the transport processes These topics are followed by surveys of the theories in intermolecular forces and their applications Other parts consider the measurement of thermal conductivity viscosity and radiation The final parts examine the properties of ionized gases and non Newtonian fluids This book will prove useful to mechanical and chemical engineers **December 16, 1972**

Görlich, 2022-02-07 No detailed description available for December 16 1972 Children's Books in Print, 2007 , 2006

Energy and the New Reality 2 Leslie Daryl Danny Harvey, 2010 Reducing and managing humanity s demand for energy is a fundamental part of the effort to mitigate climate change This comprehensive text lays out the theory and practice of how things must change if we are to meet our energy needs sustainably **Learning** , 1976 **Electroplating** Nasser Kanani, 2004-11-23 Electroplating Basic Principles Processes and Practice offers an understanding of the theoretical background to electroplating which is essential if the practical results are to be as required This book is different in that it explains HOW the electrodeposition processes work covering such topics as the elctrodeposition of composites multilayers whisker formation and giant magnetoresistive effects The section on R D approaches will be especially useful for organisations in the field This is the first English language version of a well known German language book from a prestigious author of international repute Electroplating is an invaluable resource for manufacturers of coatings electrochemists metal finishers and their customers and academics in surface engineering Offers an understanding of the theoretical background to

electroplating Explains how the electrodeposition processes work Prestigious author of international repute **Frontiers in Guided Wave Optics and Optoelectronics** Bishnu Pal,2010-02-01 As the editor I feel extremely happy to present to the readers such a rich collection of chapters authored co authored by a large number of experts from around the world covering the broad field of guided wave optics and optoelectronics Most of the chapters are state of the art on respective topics or areas that are emerging Several authors narrated technological challenges in a lucid manner which was possible because of individual expertise of the authors in their own subject specialties I have no doubt that this book will be useful to graduate students teachers researchers and practicing engineers and technologists and that they would love to have it on their book shelves for ready reference at any time *Advances in the Regulation and Production of Fungal Enzymes by Transcriptomics, Proteomics and Recombinant Strains Design* André Damasio,Gustavo H. Goldman,Roberto N. Silva,Fernando Segato,2019-10-04 Several efforts have been made in developing strategies to supply the enzyme market as well as in reducing its costs It includes the selection of an appropriate enzyme source and the optimization of enzyme properties and secretion Carbohydrate Active Enzymes CAZymes are industrially relevant biocatalysts that are capable of degrading plant cell wall biomass The most important secreted enzymes related to plant cell wall decomposition are cellulases hemicellulases and auxiliary enzymes These enzymes have been applied in the hydrolysis of plant biomass for the production of second generation 2G ethanol and several other high added value products One of the bottlenecks for 2G ethanol production is the cost of enzymes applied on plant biomass hydrolysis The improvement of proteins production by fungi applying system biology and genetic engineering is an interesting and promising strategy to reduce the enzymes cost and make the 2G ethanol production viable Fungi play an important role in plant biomass degradation and biotechnology by producing and secreting high yields of enzymes In spite of the fact that filamentous fungi present several advantages compared to other microorganisms due to the high level of proteins production heterologous protein production is far from optimal levels and still needs to be improved Currently heterologous production of certain proteins is generally considerably lower than the levels obtained to homologous production Many strategies have been studied in order to improve heterologous production of proteins by filamentous fungi including the deletion of genes that encode for proteases the deletion of lectin like ER Golgi cargo receptors and the co expression of specific chaperones It has been shown that the main bottleneck in the production of heterologous proteins is not caused by the low expression of the target gene An experimental evidence suggests that most target proteins produced in filamentous fungi are lost or stuck in the secretory pathway due to errors in processing modification or misfolding that result in their elimination by endoplasmic reticulum ER quality control Misfolded proteins alter homeostasis and proper ER functioning resulting in a state known as ER stress ER stress activates a conserved signaling pathway called unfolded protein response UPR and ER associated protein degradation ERAD which upregulates genes responsible for restoring protein folding homeostasis in the cell and degrades misfolded protein in the

cytosol by the ubiquitin proteasome system The genetic manipulation of individual genes and changes in the genome seems not to be the best alternative to overcome the main bottlenecks in heterologous protein secretion However the understanding of complex interactions of important proteins and genes as well as how they are regulated is more promising **Wear of**

Materials Peter J. Blau, 2003-10 The 14th International Conference on Wear of Materials took place in Washington DC USA 30 March 3 April 2003 These proceedings contain over two hundred peer reviewed papers containing the best research technical developments and engineering case studies from around the world Biomaterials and nano tribology receive special attention in this collection reflecting the general trends in the field Further highlights include a focus on the new generation of instrumentation to probe wear at increasingly small scales Approximately ninety communications and case studies a popular format for the academic community have also been included enabling the inclusion of the most up to date research Over 200 peer reviewed papers including hot topics such as biomaterials and nano tribology Keeping you up to date with the latest research from leading experts Includes communications and case studies *Economic Impacts of Intelligent*

Transportation Systems E Bekiaris, Y J Nakanishi, 2004-07-24 There are unique complexities associated with the economic valuation of Intelligent Transportation Systems ITS and telematics Traditional methods of quantitative analysis may not be appropriate in accurately and reliably assessing the economic impacts of these technologies Although advanced transportation and related technologies are being planned and deployed at an increasingly rapid pace many of the technologies are still relatively new and their use may not be widespread Much of the initial information and statistics gathered have been anecdotal and have focused more on benefits rather than costs Therefore difficulties arise due to the lack of historical data and lessons learned from which to draw upon In addition compared with traditional transportation infrastructure ITS technologies have different life cycles cost structures and a number of interrelated elements This book addresses these concerns and proposes new economic assessment techniques as well as modifications to existing ones Included are case studies from a multitude of North American European and Asian nations and major metropolitan areas covering a wide range of ITS technologies including freeway management electronic toll collection advanced driver assistance systems and traveller information systems

Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management Massimo Losa, Tom Papagiannakis, 2014-04-28 Worldwide there is a growing interest in efficient planning and the design construction and maintenance of transportation facilities and infrastructure assets The 3rd International Conference on Transportation Infrastructure ICTI 2014 Pisa April 22 25 2014 contains contributions on sustainable development and preservation of transportation infrastructure assets with a focus on eco efficient and cost effective measures Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management includes a selection of peer reviewed papers on a wide variety of topics Advanced modeling tools LCA LCC BCA performance prediction design tools and systems Data management monitoring and evaluation Emerging technologies and equipments

Innovative strategies and practices Environmental sustainability issues Eco friendly design and materials Re use or recycling of resources Pavements tracks and structures Case studies Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management will be particularly of interest to academics researchers and practitioners involved in sustainable development and maintenance of transportation infrastructure assets *Climate Change, Energy, Sustainability and Pavements* Kasthurirangan Gopalakrishnan, Wynand JvdM Steyn, John Harvey, 2014-09-25 Climate change energy production and consumption and the need to improve the sustainability of all aspects of human activity are key inter related issues for which solutions must be found and implemented quickly and efficiently To be successfully implemented solutions must recognize the rapidly changing socio techno political environment and multi dimensional constraints presented by today s interconnected world As part of this global effort considerations of climate change impacts energy demands and incorporation of sustainability concepts have increasing importance in the design construction and maintenance of highway and airport pavement systems To prepare the human capacity to develop and implement these solutions many educators policy makers and practitioners have stressed the paramount importance of formally incorporating sustainability concepts in the civil engineering curriculum to educate and train future civil engineers well equipped to address our current and future sustainability challenges This book will prove a valuable resource in the hands of researchers educators and future engineering leaders most of whom will be working in multidisciplinary environments to address a host of next generation sustainable transportation infrastructure challenges This book proposes a broad detailed overview of the actual scientific knowledge about pavements linked to climate change energy and sustainability at the international level in an original multidimensional multi effects way By the end the reader will be aware of the whole global issues to care about for various pavement technical features around the world among which the implications of modelling including data collection challenging resources saving and infrastructures services optimisation This is a complete and varied work rare in the domain Dr Agnes Jullien Research Director Director of Environmental Development Safety and Eco Design Laboratory EASE Department of Development Mobility and Environment Ifsttar Centre de Nantes Cedex France An excellent compilation of latest developments in the field of sustainable pavements The chapter topics have been carefully chosen and are very well organized with the intention of equipping the reader with the state of the art knowledge on all aspects of pavement sustainability Topics covered include pavement Life Cycle Analysis LCA pervious pavements cool pavements photocatalytic pavements energy harvesting pavements etc which will all be of significant interest to students researchers and practitioners of pavement engineering This book will no doubt serve as an excellent reference on the topic of sustainable pavements Dr Wei Hsing Huang Editor in Chief of International Journal of Pavement Research and Technology IJPRT and Professor of Civil Engineering National Central University Taiwan

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