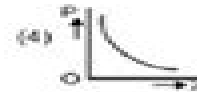
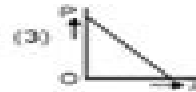
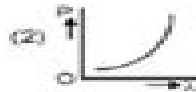
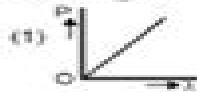


1. The threshold frequency for a certain metal is ν_0 . When light of frequency $\nu = 2\nu_0$ is incident on it, the maximum velocity of photo-electrons is 4×10^6 m/s. If the frequency of incident radiation is increased to $5\nu_0$, then the maximum velocity of photo-electrons in m/s will be
 (1) $(4/5) \times 10^6$ (2) 2×10^6 (3) 8×10^6 (4) 2×10^7

2. Light of frequency 1.5 times the threshold frequency is incident on photo-sensitive material. If the frequency is halved and intensity is doubled, the photo-current becomes
 (1) Quadrupled (2) Doubled (3) Halved (4) Zero

3. Which of the following figure, represents the variation of particle momentum and associated de-Broglie wavelength



4. An α -particle moves along a circular path of radius 0.83 cm in a magnetic field of 0.25 Wb/m^2 . The de-Broglie wavelength associated with it will be
 (1) 10 \AA (2) 1 \AA (3) 0.1 \AA (4) 0.01 \AA

5. The maximum velocity of an electron emitted by light of wavelength λ , incident on the surface of a metal of work function ϕ is

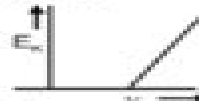
(1) $\left[\frac{2(hc + \lambda\phi)}{m\lambda} \right]^{1/2}$

(2) $\left[\frac{2(hc - \lambda\phi)}{m\lambda} \right]^{1/2}$

(3) $\frac{2(hc - \lambda\phi)}{m\lambda}$

(4) $\frac{2(hc + \lambda\phi)}{m\lambda}$

6. Graph is plotted between maximum kinetic energy of electron with frequency of incident photon in Photo electric effect. The slope of curve will be-



- (1) Charge of electron
 (3) Planck's constant

- (2) Work function of metal
 (4) Ratio of Planck constant and charge of electron

7. Helium atom emits a photon of wavelength 0.1 \AA . The recoil energy of the atom due to the emission of photon will be
 (1) 2.04 eV (2) 4.91 eV (3) 1.67 eV (4) 9.10 eV

8. A photon of light enters a block of glass after travelling through vacuum. The energy of the photon on entering the glass block

- (1) increases because its associated wavelength decreases
 (2) Decreases because the speed of the radiation decreases
 (3) Stays the same because the speed of the radiation and the associated wavelength do not change
 (4) Stays the same because the frequency of the radiation does not change

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Engineering Laboratory (U.S.)**



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ICPMG2014 - Physical Modelling in Geotechnics Christophe Gaudin,David White,2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics ICPMG2014 was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering This quadrennial conference is the traditional focal point for the physical modelling community of academics scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering These proceedings together with the seven previous proceedings dating from 1988 present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer reviewed papers from 26 countries They are organised in 14 themes presenting the latest developments in physical modelling technology modelling techniques and sensors through a wide range of soil structure interaction problems including shallow and deep foundations offshore geotechnics dams and embankments excavations and retaining structures and slope stability Fundamental aspects of earthquake engineering geohazards ground reinforcements and improvements and soil properties and behaviour are also covered demonstrating the increasing complexity of modelling arising from state of the art technological developments and increased understanding of similitude principles A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering

Research in Education ,1973 **Resources in Education** ,1993-11 Dependable Computing - EDCC 2024 Workshops Behrooz Sangchoolie,Rasmus Adler,Richard Hawkins,Philipp Schleiss,Alessia Arteconi,Adriano Mancini,2024-03-23 This book constitutes the refereed proceedings of Workshops held at the 19th European Dependable Computing Conference EDCC 2024 First Workshop on Safe Autonomous Systems SafeAutonomy 2024 and the First Workshop on the Role of TRUST in the implementation of Digital Technologies Blockchain Technology and Artificial Intelligence in Smart Cities TRUST IN BLOCKCHAIN 2024 The 13 workshop papers presented in this book were thoroughly reviewed and selected from 14 submissions The TRUST IN BLOCKCHAIN workshop accepted extended abstract submissions whereas the SafeAutonomy workshop accepted regular technical papers case studies PhD forum papers as well as position papers They deal with latest research results on theory techniques systems and tools for the design validation operationand evaluation of dependable and secure computing systems **Energy Research Abstracts** ,1993 **Research in Education** ,1968 **EPA Publications Bibliography** United States. Environmental Protection Agency,1985 *Thermal Analysis of Power Electronic Devices Used in Renewable Energy Systems* Alhussein Albarbar,Canras Batunlu,2017-07-19 This book analyzes the thermal characteristics of power electronic devices PEDs with a focus on those used in wind and solar

energy systems The authors focus on the devices used in such applications for example boost converters and inverters under different operating conditions The book explains in detail finite element modeling techniques setting up measuring systems data analysis and PEDs lifetime calculations It is appropriate reading for graduate students and researchers who focus on the design and reliability of power electronic devices Resources in Education ,1985 **Selected Water Resources**

Abstracts ,1979 *Scientific and Technical Aerospace Reports* ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Euro-Par 2021: Parallel Processing Workshops** Ricardo Chaves,Dora B. Heras,Aleksandar Ilic,Didem Unat,Rosa M. Badia,Andrea Bracciali,Patrick Diehl,Anshu Dubey,Oh Sangyoon,Stephen L. Scott,Laura Ricci,2022-06-08 This book constitutes revised selected papers from the workshops held at the 27th International Conference on Parallel and Distributed Computing Euro Par 2021 which took place in Portugal in August 2021 The workshops were held virtually due to the coronavirus pandemic The 39 full papers presented in this volume were carefully reviewed and selected from numerous submissions The papers cover all aspects of parallel and distributed processing These range from theory to practice from small to the largest parallel and distributed systems and infrastructures from fundamental computational problems to full edged applications from architecture compiler language and interface design and implementation to tools support infrastructures and application performance aspects **Challenges for Radiation**

Transport Modelling: Monte Carlo and Beyond Miguel Antonio Cortés-Giraldo,Francis A. Cucinotta,Susanna Guatelli,Vasilis Vlachoudis,2022-08-19 *The Irresistible Rise of the Standard Model* F.-L. Navarra,P. G. Pelfer,1998

CRREL Technical Publications Cold Regions Research and Engineering Laboratory (U.S.),1990 **The Educational year book. [5 issues].** ,1882 Directory of Published Proceedings ,1995 **Technical Abstract Bulletin** ,1978

VLSI Design and Test for Systems Dependability Shojiro Asai,2018-07-20 This book discusses the new roles that the VLSI very large scale integration of semiconductor circuits is taking for the safe secure and dependable design and operation of electronic systems The book consists of three parts Part I as a general introduction to this vital topic describes how electronic systems are designed and tested with particular emphasis on dependability engineering where the simultaneous assessment of the detrimental outcome of failures and cost of their containment is made This section also describes the related research project Dependable VLSI Systems in which the editor and authors of the book were involved for 8 years Part II addresses various threats to the dependability of VLSIs as key systems components including time dependent degradations variations in device characteristics ionizing radiation electromagnetic interference design errors and tampering with discussion of technologies to counter those threats Part III elaborates on the design and test technologies for dependability in such applications as control of robots and vehicles data processing and storage in a cloud environment and heterogeneous wireless telecommunications This book is intended to be used as a reference for engineers who work on the design and

testing of VLSI systems with particular attention to dependability It can be used as a textbook in graduate courses as well Readers interested in dependable systems from social and industrial economic perspectives will also benefit from the discussions in this book **Nuclear Physics** ,1998

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