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General Certificate of Education  
Advanced Level Examination  
June 2010

## Physics

(Specifications A and B)

## PHA6/B6/X

Unit 6: Investigative and Practical Skills in A-level Physics  
Module 6: Externally Marked Practical Assignment (EMPA)

Section A: Task 1

For this paper you must have:

- a calculator
- a pencil
- a ruler

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Show all your working.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for Section A: Page 1 is 10.



# Empa Physics 2015

**Phillip Jones**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## **Empa Physics 2015:**

**Graduate & Professional Programs: An Overview 2015 (Grad 1)** Peterson's, 2014-12-23 Graduate Professional Programs An Overview 2015 contains over 2 000 university and college profiles with detailed information on the degrees available enrollment figures tuition financial support housing faculty research affiliations library facilities and contact information This graduate guide enables students to explore program listings by field geographic area and institution Two page in depth descriptions written by each featured institution give complete details on the graduate study available Up to date appendixes list institution changes since the last edition and abbreviations used in the guide Graduate Professional Programs An Overview 2015 is the latest in Peterson's 40 year history of providing prospective students with the most up to date graduate school information available Springer Handbook of Aerogels Michel A. Aegerter, Nicholas Leventis, Matthias Koebel, Stephen A. Steiner III, 2023-10-01 This indispensable handbook provides comprehensive coverage of the current state of the art in inorganic organic and composite aerogels from synthesis and characterization to cutting edge applications and their potential market impact Built upon Springer's successful Aerogels Handbook published in 2011 this handbook features extensive revisions and timely updates reflecting the changes in this fast growing field Aerogels are the lightest solids known to man Up to 1000 times lighter than glass and with a density only four times that of air they possess extraordinarily high thermal electrical and acoustic insulation properties and boast numerous entries in Guinness World Records Originally based on silica R D efforts have extended this class of materials to incorporate non silicate inorganic oxides natural and synthetic organic polymers carbon metal and ceramic materials Composite systems involving polymer crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility Even more exotic aerogels based on clays chalcogenides phosphides quantum dots and biopolymers such as chitosan are opening new applications for the construction transportation energy defense and healthcare industries Applications in electronics chemistry mechanics engineering energy production and storage sensors medicine nanotechnology military and aerospace oil and gas recovery thermal insulation and household uses are being developed Readers of this fully updated and expanded edition will find an exhaustive source for all aerogel materials known today their fabrication upscaling aspects physical and chemical properties and the most recent advances towards applications and commercial use This key reference is essential reading for a combined audience of graduate students academic researchers and industry professionals Nano and Biotech Based Materials for Energy Building Efficiency F. Pacheco Torgal, Cinzia Buratti, S. Kalaiselvam, Claes-Göran Granqvist, Volodymyr Ivanov, 2016-02-04 This book presents the current state of knowledge on nanomaterials and their use in buildings ranging from glazing and vacuum insulation to PCM composites It also discusses recent applications in organic photovoltaics photo bioreactors bioplastics and foams making it an exciting read while also providing copious references to current research and applications for those wanting to pursue possible future

research directions Derek Clements Croome Emeritus Professor in Architectural Engineering University of Reading From the Foreword Demonstrating how higher energy efficiency in new and existing buildings can help reduce global greenhouse gas emissions this book details the way in which new technologies manufacturing processes and products can serve to abate emissions from the energy sector and offer a cost effective means of improving competitiveness and drive employment Maximizing reader insights into how nano and biotech materials such as aerogel based plasters thermochromic glazings and thermal energy adsorbing glass amongst others can provide high energy efficiency performance in buildings it provides practitioners in the field with an important high tech tool to tackle key challenges and is essential reading for civil engineers architects materials scientists and researchers in the area of the sustainability of the built environment *X-Ray Studies on Electrochemical Systems* Artur Braun, 2024-07-22 This book is your graduate level entrance into battery fuel cell and solar cell research at synchrotron x ray sources and free electron lasers Materials scientists find numerous examples for the combination of electrochemical experiments with simple and with highly complex x ray scattering and spectroscopy methods Physicists and chemists can link applied electrochemistry with fundamental concepts of condensed matter physics physical chemistry and surface science **Handbook on the Physics and Chemistry of Rare Earths** , 2016-08-01 Handbook on the Physics and Chemistry of Rare Earths is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics The book s main emphasis is on rare earth elements Sc Y and the lanthanides La through Lu but whenever relevant information is also included on the closely related actinide elements Individual chapters are comprehensive broad up to date critical reviews written by highly experienced invited experts The series which was started in 1978 by Professor Karl A Gschneidner Jr combines and integrates both the fundamentals and applications of these elements and publishes two volumes a year Presents up to date overviews of new developments in the field of rare earths covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad with critical reviews Provides contributions from highly experienced invited experts *ECMS 2015 - Periodico di Mineralogia Special Issue* Giovanni B. Andreozzi, Ferdinando Bosi , 2015-09-03 Rome is proud to host the eighth edition of the European Conference on Mineralogy and Spectroscopy ECMS 2015 This is a welcome back after the starting point of this conference cycle in Rome 1988 and following editions held in Berlin 1995 Kiev 1996 Paris 2001 Vienna 2004 Stockholm 2007 and Potsdam 2011 The Rome 2015 conference will hopefully reflect the philosophy of previous conferences and provide a common forum to present new ideas concepts and results related to mineral spectroscopy It will also offer an opportunity for students and young scientists to meet and interact with established well known scientists The conference deals with mineralogy spectroscopy and related fields of science bringing together both theoretically and experimentally oriented scientists and providing an opportunity to share ideas and learn from one another The ECMS 2015 is housed in the headquarters of the National Research Council and consists of three days of oral presentations and two days of poster

sessions Keynote lectures will be presented by Frank C Hawthorne Laurence Galois Robert D Shannon Giancarlo Della Ventura Bjorn Winkler and Catherine McCammon This volume is the joint effort of all conference participants largely coming from Europe but also from America Asia and Australia It contains 100 contributions many of which present experimental results and applications based on new or well established analytical techniques while others highlight theoretical and computational approaches to our better understanding of short range and long range structures of minerals and materials We are very grateful for the constant support of Francesco Di Benedetto publicity chair Sabrina Nazzareni treasurer and our scientific advisory board Danilo Bersani Giuseppe Cruciani Michele Dondi Ulf H lenius Monika Koch M ller Roberta Oberti Henrik Skogby and Sergio Speziale Without the generous sponsoring from the Societ Italiana di Mineralogia e Petrologia SIMP Italian National Research Council CNR and Periodico di Mineralogia and the support of Sapienza Universit di Roma it would have been very difficult to organize this meeting and this volume We also appreciate the sponsorship and scholarship grant from the European Mineralogical Union EMU and the International Union of Crystallography IUCr and contributions from private companies Bruker Geologica Gemmoran Masterstones PANalytical Thanking all participants for coming in the Eternal City we wish you all a stimulating informative and enjoyable conference and offer a sincere welcome to the ECMS 2015 Giovanni B Andreozzi and Ferdinando Bosi Co chairmen On behalf of the Organizing Committee

*Graduate Programs in the Humanities, Arts & Social Sciences 2015 (Grad 2)* Peterson's, 2014-11-25 Peterson's Graduate Programs in the Humanities Arts Social Sciences 2015 contains details on more than 11 000 graduate programs of study across all relevant disciplines including the arts and architecture communications and media psychology and counseling political science and international affairs economics and sociology anthropology archaeology and more Informative data profiles include facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series

**Multiphysics and Multiscale Building Physics**

Umberto Berardi, 2024-12-22 This book contains selected papers presented at the 9th edition of the official triennial conference of the International Association of Building Physics IABP held in Toronto Ontario Canada on 25 27 July 2024 The contents make valuable contributions to academic researchers and practioners of the building sector Readers will encounter new ideas for realizing more efficient and resilient buildings and cities The approach followed in the book aims to explore how building physics can be explored using multi domains and scales

Thermal Design of Buildings Phillip Jones, 2021-07-26 The way we heat cool and ventilate our buildings is central to many of today's concerns including providing comfortable healthy and productive environments using energy and materials efficiently and reducing greenhouse gas emissions As we drive towards a zero carbon society design solutions that combine architecture engineering and the needs of

the individual are increasingly being sought Thermal Design of Buildings aims to provide an understanding from which such solutions can be developed placing technological developments within the context of a wider world view of the built environment and energy systems and an historical perspective of how buildings have responded to climate and sustainable development *Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)* Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **Graduate Programs in Business, Education, Information Studies, Law & Social Work 2015 (Grad 6)** Peterson's,2014-12-30 Graduate Programs in Business Education Information Studies Law Social Work 2015 contains helpful facts and figures on more than 11 000 graduate programs The comprehensive directory includes more than 1 850 institutions and their programs in all of the relevant disciplines such as accounting and finance business management education law library and information sciences marketing social work and many more Informative data profiles feature facts and figures on accreditation degree requirements application deadlines contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate program school or department as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series *Renewable Energy Systems* Sanjay Kumar,Nikita Gupta,Sandeep Kumar,Subho Upadhyay,2022-11-01 RENEWABLE ENERGY SYSTEMS Providing updated and state of the art coverage of a rapidly changing science this groundbreaking new volume presents the latest technologies processes and equipment in renewable energy systems for practical applications This groundbreaking new volume examines recent advances in the area of renewable energy systems including modeling and optimization using different methods like GAMS HOMER AI techniques and MATLAB Simulink and others Covering extensively diverse topics ranging from solar radiation prediction model to improving solar power output by studying the tilt and orientation angle of rooftop mounted systems a multitude of practical applications are covered offering solutions to everyday problems as well as the theory and concepts behind the technology Among these applications are increasing the longevity of PV by studying its degradation and its use by operating an electrolyzer for hydrogen production using biodiesel as a green energy resource as an alternative to diesel fuel concentrating the black liquor based biomass as a source from multiple stage evaporator along with thermo vapour compressor and the real time problems of modeling and optimizing renewable energy sources Written and edited by a global team of experts this groundbreaking new volume from Scrivener Publishing presents recent advances in the study of renewable energy systems across a variety of fields and sources Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas this is a must have for any library *Reliability Engineering* Alessandro Birolini,2017-05-19 This book shows how to build in and assess reliability availability maintainability and safety RAMS of components equipment and systems It presents the state of the art of reliability RAMS engineering in theory practice and is

based on over 30 years author's experience in this field half in industry and half as Professor of Reliability Engineering at the ETH Zurich The book structure allows rapid access to practical results Methods tools are given in a way that they can be tailored to cover different RAMS requirement levels Thanks to Appendices A6 A8 the book is mathematically self contained and can be used as a textbook or as a desktop reference with a large number of tables 60 figures 210 and examples exercises 10 000 per year since 2013 were the motivation for this final edition the 13th since 1985 including German editions Extended and carefully reviewed to improve accuracy it represents the continuous improvement effort to satisfy reader's needs and confidence New are an introduction to risk management with structurally new models based on semi Markov processes to the concept of mean time to accident reliability availability of a k out of n redundancy with arbitrary repair rate for  $n \geq k \geq 10$  new homework problems and refinements in particular on multiple failure mechanisms approximate expressions incomplete coverage data analysis and comments on MTBF MTTF MTTR R PA

**Handbook of X-ray Imaging** Paolo

Russo, 2017-12-14 Containing chapter contributions from over 130 experts this unique publication is the first handbook dedicated to the physics and technology of X ray imaging offering extensive coverage of the field This highly comprehensive work is edited by one of the world's leading experts in X ray imaging physics and technology and has been created with guidance from a Scientific Board containing respected and renowned scientists from around the world The book's scope includes 2D and 3D X ray imaging techniques from soft X ray to megavoltage energies including computed tomography fluoroscopy dental imaging and small animal imaging with several chapters dedicated to breast imaging techniques 2D and 3D industrial imaging is incorporated including imaging of artworks Specific attention is dedicated to techniques of phase contrast X ray imaging The approach undertaken is one that illustrates the theory as well as the techniques and the devices routinely used in the various fields Computational aspects are fully covered including 3D reconstruction algorithms hard software phantoms and computer aided diagnosis Theories of image quality are fully illustrated Historical radioprotection radiation dosimetry quality assurance and educational aspects are also covered This handbook will be suitable for a very broad audience including graduate students in medical physics and biomedical engineering medical physics residents radiographers physicists and engineers in the field of imaging and non destructive industrial testing using X rays and scientists interested in understanding and using X ray imaging techniques The handbook's editor Dr Paolo Russo has over 30 years experience in the academic teaching of medical physics and X ray imaging research He has authored several book chapters in the field of X ray imaging is Editor in Chief of an international scientific journal in medical physics and has responsibilities in the publication committees of international scientific organizations in medical physics Features Comprehensive coverage of the use of X rays both in medical radiology and industrial testing The first handbook published to be dedicated to the physics and technology of X rays Handbook edited by world authority with contributions from experts in each field

**Electrochemical Energy Systems** Artur Braun, 2018-12-03 This book is for anyone interested in renewable

energy for a sustainable future of mankind Batteries fuel cells capacitors electrolyzers and solar cells are explained at the molecular level and at the power plant level in their historical development in their economical and political impact and social change Cases from geophysics and astronomy show that electrochemistry is not confined to the small scale Examples are shown and exercised Springer Handbook of Wood Science and Technology Peter Niemz, Alfred Teischinger, Dick Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology Advanced Treatment Techniques for Industrial Wastewater Hussain, Athar, Ahmed, Sirajuddin, 2018-07-20 A heavy backlog of gaseous liquid and solid pollution has resulted from a lack of development in pollution control Because of this a need for a collection of original research in water and wastewater treatment industrial waste management and soil and ground water pollution exists Advanced Treatment Techniques for Industrial Wastewater is an innovative collection of research that covers the different aspects of environmental engineering in water and wastewater treatment processes as well as the different techniques and systems for pollution management Highlighting a range of topics such as agriculture pollution hazardous waste management and sewage farming this book is an important reference for environmental engineers waste authorities solid waste management companies landfill operators legislators environmentalists and academicians seeking research on waste management **Solar Cells** Sandeep Arya, Prerna Mahajan, 2023-11-16 This book highlights developments in the field of solar cells The chapters in this book address a wide range of topics including the spectrum of light received by solar cell devices the basic functioning of a solar cell and the evolution of solar cell technology during the last 50 years It places particular emphasis on silicon solar cells CIGS based solar cells organic solar cells perovskite solar cells and hybrid solar cells The book describes in detail the fabrication processes employed for different categories of solar cells It also provides the characterization techniques utilized in this sector to evaluate the performance of solar cells and the



scope of this domain in the future Overall it presents the essential theoretical and practical concepts of solar cells in an easy to understand manner **The 7 Transdisciplinary Cognitive Skills for Creative Education** Danah

Henriksen,2017-07-22 This book focuses on rethinking creativity for 21st century education The specific emphasis examines the way that creativity spans disciplines through a set of common thinking skills that the most accomplished thinkers in any field use These seven transdisciplinary thinking skills are rooted in historical exemplars of creativity across disciplines We examine these skills in more detail chapter by chapter to offer examples of what each skill looks like in disciplines ranging from art to science or music to math and beyond This set of thinking skills reflects the way that creativity may look different across fields yet there are common paths of creative thinking that cut across disciplinary boundaries Beyond this each chapter also considers applications for such skills in 21st century educational contexts with an eye toward creative teaching and technology In all of this the book weaves together broad cultural examples of creativity and the seven transdisciplinary skills alongside specific application based examples from technology and teacher education *Gallium Nitride (GaN)* Farid Medjdoub,2017-12-19 Addresses a Growing Need for High Power and High Frequency Transistors Gallium Nitride GaN Physics Devices and Technology offers a balanced perspective on the state of the art in gallium nitride technology A semiconductor commonly used in bright light emitting diodes GaN can serve as a great alternative to existing devices used in microelectronics It has a wide band gap and high electron mobility that gives it special properties for applications in optoelectronic high power and high frequency devices and because of its high off state breakdown strength combined with excellent on state channel conductivity GaN is an ideal candidate for switching power transistors Explores Recent Progress in High Frequency GaN Technology Written by a panel of academic and industry experts from around the globe this book reviews the advantages of GaN based material systems suitable for high frequency high power applications It provides an overview of the semiconductor environment outlines the fundamental device physics of GaN and describes GaN materials and device structures that are needed for the next stage of microelectronics and optoelectronics The book details the development of radio frequency RF semiconductor devices and circuits considers the current challenges that the industry now faces and examines future trends In addition the authors Propose a design in which multiple LED stacks can be connected in a series using interband tunnel junction TJ interconnects Examine GaN technology while in its early stages of high volume deployment in commercial and military products Consider the potential use of both sunlight and hydrogen as promising and prominent energy sources for this technology Introduce two unique methods PEC oxidation and vapor cooling condensation methods for the deposition of high quality oxide layers A single source reference for students and professionals Gallium Nitride GaN Physics Devices and Technology provides an overall assessment of the semiconductor environment discusses the potential use of GaN based technology for RF semiconductor devices and highlights the current and emerging applications of GaN

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