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General Certificate of Education  
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June 2010

## Physics

(Specifications A and B)

## PHA6/B6/X

Unit 6: Investigative and Practical Skills in Ad 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.



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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the text 'Union of International Associations'.

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**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

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**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

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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 Speciale 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 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

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**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

**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

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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

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*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

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