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PH6 Question Booklet	
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Advanced Certificate of Education
Advanced Level Examination
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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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

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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 k 2 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

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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 practitioners 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

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