

Wednesday 24 May 2023 – Afternoon

A Level Physics B (Advancing Physics)

H557/01 Fundamentals of Physics

Time allowed: 2 hours 15 minutes

You must have:

- the Data, Formulae and Relationships Booklet

You can use:

- a scientific or graphical calculator
- a ruler (cm/mm)



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.

INFORMATION

- The total mark for this paper is **110**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has **40** pages.

ADVICE

- Read each question carefully before you start your answer.

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B Lingard



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Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2010 **Physics for OCR A for Separate Award** Sandra Mitchell, Chris Sherry, 2001 This series is for schools following OCR A double or separate award for GCSE science The resources offer preparation for the OCR exams with teacher support to minimise time spent on administration The teacher's resources are available on CD ROM in a fully customizable format *Computerworld*, 1977-11-28 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network *Principles of Document Processing*, 1996 **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1975 **Rough Sets, Fuzzy Sets, Data Mining and Granular Computing** Sergei O. Kuznetsov, Dominik Ślęzak, Daryl H. Hepting, Boris G. Mirkin, 2011-06-14 This book constitutes the refereed proceedings of the 13th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2011 held in Moscow Russia in June 2011 The 49 revised full papers presented together with 5 invited and 2 tutorial papers were carefully reviewed and selected from a total of 83 submissions The papers are organized in topical sections on rough sets and approximations coverings and granules fuzzy set models fuzzy set applications compound values feature selection and reduction clusters and concepts rules and trees image processing and interactions and visualization **Process and Pattern in Evolution** Terrell H. Hamilton, 1979 *Journal of Research of the National Bureau of Standards*, 1971 **Government reports annual index**, 199? Let There Be Light! Robert S. Dutch, 2017-06-16 Have you ever wondered what it is like to work on a nuclear power plant Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center He also holds degrees in theology Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective In contrast to a negative nuclear narrative often portrayed he presents a positive nuclear narrative alongside other ways of generating electricity Be prepared to be challenged to think seriously about nuclear's merits in providing clean low carbon electricity **Datamation**, 1979 *Government Reports Annual Index: Keyword A-L*, 1976 *Landslides and Engineered Slopes. Experience, Theory and Practice* Stefano Aversa, Leonardo Cascini, Luciano Picarelli, Claudio Scavia, 2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12-19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subareal and submarine landslide processes and hazard

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World Congress on Medical Physics and Biomedical Engineering 2018 Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott, 2018-05-29 This book vol 1 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field div Chapter Evaluation of the Impact of an International Master of Advanced Studies in Medical Physics is available open access under a Creative Commons Attribution 3 0 IGO Licence via link [springer.com](https://www.springer.com)

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