

Complete Physics Stephen Pople Answers

The best-selling Complete Physics for
Cambridge IGCSE Student Book is

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trusted by teachers around the world to support understanding and achievement. The popular, stretching approach will help students to reach their full potential. Written by an experienced author, this updated print and online pack is full of engaging content with up-to-date

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examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch

the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is accompanied by free online access to a wealth of extra support for

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students including practice exam questions, revision checklists and advice on how to prepare for an examination. Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced

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understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by experienced authors, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the

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Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare

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them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. You will also receive free access to extra support online, including practice exam questions, revision checklists and advice

on how to prepare for an examination.
This new Teacher's Resource Pack offers expert support directly aligned with the Cambridge IGCSE Physics syllabus. Including worksheets, and ideas for practicals, with customisable material and PowerPoint presentations on CD.

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Fully endorsed by Cambridge International Examinations. This revised set of resources for Cambridge International AS and A Level Business syllabus (9609) is thoroughly updated for the latest version of the curriculum. Written by experienced

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authors, the Coursebook provides comprehensive coverage of the syllabus. Accessible language combined with the clear, visually-stimulating layout makes this an ideal resource for the course. Questions and explanation of key terms reinforce knowledge; different kinds of

activities build application, analytical and evaluation skills; and case studies contextualise the content making it relevant to international learners. It provides thorough examination support for all papers with exam-style questions with each chapter and an extensive Paper

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3 style case study with each unit. The student CD-ROM contains revision aids, further questions and activities. A Teacher's CD-ROM is also available.

Cambridge IGCSE® Biology
Coursebook with CD-ROM
IGCSE Chemistry

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Student Workbook for Physics for
Scientists and Engineers
Complete Chemistry
For Higher Tier

Support understanding for
the latest Cambridge IGCSE
Physics syllabus (0625)

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for first examination in 2016. The clear, concise approach will support your EAL learners in understanding crucial scientific concepts. A step-by-step approach to

the syllabus will help every learner reach their potential in science. Ensuring you will cover everything, this digital second edition is matched to the latest Cambridge

syllabus. It is written by an examiner, to help you support assessment confidence.

This second edition provides full coverage of the most recent IGCSE

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syllabus in a highly illustrative and accessible way. It also comes with a free CD, including additional exam style questions, interactive exercises and

revision tips. Fully
endorsed by University of
Cambridge International
Examinations.
This title is endorsed by
Cambridge Assessment
International Education to

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support the full syllabus
for examination from 2023.
Benefit from the knowledge
of our renowned expert
authors to navigate
through the content of the
updated Cambridge IGCSE™

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and O Level Computer
Science syllabuses
(0478/0984/2210). -
Develop computational
thinking and problem-
solving skills: clearly-
explained concepts are

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followed by opportunities to implement in the programming language of choice. - Build an understanding of computer systems and associated technologies: carefully

prepared worked examples
explain new ideas
alongside activities to
test and consolidate. -
Navigate the syllabus
confidently: supplementary
subject content is flagged

clearly, with
introductions to each
topic outlining the
learning objectives. -
Satisfy curiosity:
students are encouraged to
deepen their knowledge and

understanding of the
subject with Extension
Activities and Find Out
More. - Consolidate skills
and check understanding:
self-assessment questions,
activities and exam-style

questions are embedded throughout the book, alongside key definitions of technical terms and a glossary. Answers to the Student Book are available in Cambridge IGCSE and O

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Level Computer Science
Teacher's Guide with Boost
Subscription 9781398318502
Complete Chemistry is a
revised and enlarged
edition of the popular
GCSE Chemistry improved to

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bring it totally up-to-date. This book covers all syllabuses with core material, for Double Award, and extension material, for Science: Chemistry. The breadth and

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depth is sufficient to stretch your students aiming for the top grades and makes it an excellent foundation for those intending to progress to advanced level chemistry.

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Key Points: · Now includes
all the necessary topics
for IGCSE · Concepts and
principles of chemistry
presented in a clear,
straightforward style ·
Lively and colourful

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coverage of the relevance
of chemistry in the real
world • End of chapter
testing with more
challenging and structured
questions • Examination
style questions •

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Pagination remains the same as GCSE Chemistry so that the two can be used alongside each other Oxford Revision Guides Cambridge IGCSE First Language English

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Coursebook with Free
Digital Content
Complete Physics for
Cambridge IGCSE® with CD-
ROM (Second Edition)
New Coordinated Science:
Biology Students' Book

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Cambridge IGCSE® and O
Level Additional
Mathematics Coursebook
Stephen Pople, one of today's most
respected science authors, has created a
totally new physics book to prepare
students for examinations. Complete

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Physics covers all syllabuses due to a unique combination of Core Pages and Further Topics. Each chapter contains core material valid for all syllabuses. Further Topics at the end can be selected to provide the right mix of pages for the syllabus you are teaching.

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complete-physics-stephen-pople-answers

Key Points: · Totally new book constructed from an analysis of all GCSE Physics syllabuses including IGCSE, CXC, and O'Level · Sets the traditional principles of physics in a modern and global perspective and uses illustrations with a worldwide

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context · Extra topics to give a truly rounded curriculum · Double-page spread format · Ideal for those students intending to take physics to a more advanced level

The Complete Physics for Cambridge IGCSE & O Level Workbook, part of

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the rigorous and trusted Complete Science series, supports independent practice both inside and outside the classroom to strengthen students' exam potential.

The first Nato Advanced Studies Institute entirely devoted to density

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functional theory was held in Portugal in September 1983. The proceedings of this School, published in early 1985, is still used as a standard reference covering the basic development of the theory and applications in atomic, molecular, solid state and nuclear

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physics. However, astonishing progress has been achieved in the intervening years: The foundations of the theory have been extended to cover excited states and time dependent problems more fully, density functional theory of classical liquids and superconducting

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systems has been addressed and extensions to relativistic, that is, field theoretical systems, as well as a more thorough discussion of magnetic field problems have been presented. In addition, new functionals have been devised, for instance under the heading

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of generalised gradient expansions, and the number of applications in the traditional fields has steadily increased, in particular in chemistry. Applications in new fields, as for instance the structure of atomic clusters and the marriage of density functional theory

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with molecular dynamics and simulated annealing, have provided additional impetus to the field of density functional theory.

This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since

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its publication. This new edition, complete with CD-ROM, continues to provide comprehensive, up-to-date coverage of the core and extended curriculum topics specified in the IGCSE Chemistry syllabus. The book is supported by a CD-ROM containing

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extensive revision and exam practice questions, background information and reference material.

A Practical Introduction

Density Functional Theory

Complete Physics for Cambridge

IGCSE®: Teacher's Resource Pack

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Cambridge IGCSE and O Level
Computer Science Second Edition
Complete Physics for Cambridge
IGCSE® Workbook
Fully updated and matched to the
Cambridge syllabus, this stretching
Student Book is trusted by teachers

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around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by an experienced author, Stephen Pople, this updated edition is full of engaging

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content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical

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activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is accompanied by

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free online access to a wealth of extra support for students including practice exam questions, revision checklists and advice on how to prepare for an examination.

Exam board: Cambridge Assessment
International Education Level: IGCSE

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Subject: Mathematics First teaching:
September 2018 First exams: Summer
2020 This title is endorsed by
Cambridge Assessment International
Education to provide full support for
the Core content of the syllabus for
examination from 2020. Rely on a tried-

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and-tested approach to improving mathematical skills; ensure full coverage of the latest Cambridge IGCSE Mathematics Core syllabus (0580/0980) with a new emphasis on problem-solving. - Trust an experienced team of authors offering

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advice on how to put theory into practice with plenty of exercises, worked examples and solutions. - Develop problem-solving skills with guidance on problem-solving techniques to help complete open-ended investigations. - Apply problem-

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solving skills with multi-stage questions encouraging independent decisions on routes to a solution. - Consolidate learning with activities, extra questions, practice tests and answers to selected questions online. Available in this series: Student

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Textbook Second edition (ISBN
9781510421660) Student eTextbook
(ISBN 9781510420595) Whiteboard
eTextbook (ISBN 9781510420601)
Workbook (ISBN 9781510421677)
This book is based on the best selling
Complete Physics and has been written

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specifically for the IGCSE CIE syllabus. It has an extremely popular 2-page layout design which encourages active learning allowing students to cross reference and quickly find specific information. It has excellent diagrams and illustrations and a huge

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bank of examination questions taken from past CIE papers. The activities and features help students to engage in the subject.

This brand new series provides an accessible, lively, and comprehensive resource for students aiming for

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success at Foundation Tier GCSE Double Award Science. It has been written to match all the various specifications introduced in 2001. The Target Science author team includes a Chief Examiner and is led by Stephen Pople, one of the country's most

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respected and successful science
textbook writers. BL Carefully
controlled language level throughout
BL Special emphasis on design and
layout to maximise accessibility BL
Frequent opportunities for students to
confirm and reinforce their

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understanding BL Numerous exam-style questions to support students in developing exam technique BL End-of-chapter glossaries of terms BL Revision guidance Target Science offers an authoritative resource for GCSE that is tailor-made for students

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studying at Foundation Tier.
New Coordinated Science: Chemistry
Students' Book
Complete Physics for Cambridge
IGCSE®
Cambridge IGCSE Chemistry
Coursebook with CD-ROM

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Cambridge International AS and A
Level Business Coursebook with CD-
ROM

AS and A Level Physics Through
Diagrams

Making the leap to Cambridge
IGCSE can be a challenge - this

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brand new course leads learners smoothly through all three stages of Cambridge Secondary 1 Physics up to Cambridge Checkpoint and beyond, with crucial rigour built in from the outset so they can dive into Cambridge IGCSE Science

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study with confidence.

The bestselling title, developed by International experts - now updated to offer comprehensive coverage of the core and extended topics in the latest syllabus. - Covers the core and supplement sections of the

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updated syllabus - Supported by the most comprehensive range of additional material, including Teacher Resources, Laboratory Books, Practice Books and Revision Guides - Written by renowned, expert authors with vast

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experience of teaching and
examining international
qualifications We are working with
Cambridge International
Examinations to gain endorsement.
Artificial intelligence (AI) is a field
within computer science that is

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attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is

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becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications.

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The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes

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containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers

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for centuries.

Up-to-date resources providing full coverage of Cambridge IGCSE® First Language English (0500 and 0522) for first examination in 2015. This Fourth edition Coursebook is designed to support the Cambridge

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IGCSE First Language English (0500) and Cambridge International Level 1/Level 2 Certificate First Language English (0522). It teaches all the skills required for the Cambridge IGCSE and includes activities on a variety of engaging

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topics, set out in 14 lively, full-colour units. All our supporting resources, like audio files and answer sheets, have now moved to Cambridge GO. Go to Cambridge GO to register and access files for any of your Cambridge titles. If you

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already have an account, just log in and go to 'add new resources'.

Complete Physics for Cambridge
Igcserg Print and Online Student
Book Pack

Print Student Book

Essential Physics for Cambridge

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Igcse(r) 2nd Edition

Cambridge IGCSE® and O Level
Complete Physics: Workbook
Fourth Edition

Strengthen exam potential. Directly
supporting the bestselling Complete

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Science for Cambridge IGCSE series, this new Workbook equips students with the essential practice central to performance in exams. Matched to the latest syllabus, stretching activities fully develop all the key exam skills, preparing

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students to achieve.

This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide

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comprehensive, up-to-date
coverage of the core and extended
curriculum specified in the IGCSE
Physics syllabus, The book is
supported by a CD-ROM containing
extensive revision and exam
practice questions, background

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information and reference material. New Coordinated Science is our most popular upper secondary course and is widely regarded by teachers as the best available. This third edition has been completely updated for the new specifications.

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These new editions maintain the same clear presentation and straightforward approach that has made New Coordinated Science so enduringly popular. Information is provided in manageable chunks and is reinforced by stimulating

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questions and activities that encourage students to consider the practical application of science to everyday life. These new editions provide a new focus on your Higher Tier GCSE students. The breadth and depth of the new material is

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enough to stretch and stimulate even the highest achievers. New Coordinated Science is also recommended by University of Cambridge International Examinations for IGCSE Physics. This edition of our successful series

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to support the Cambridge IGCSE Chemistry syllabus (0620) is fully updated for the revised syllabus from first examination from 2016. Written by a team with teaching and examining experience, Cambridge IGCSE Chemistry Coursebook with

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CD-ROM gives comprehensive and accessible coverage of the syllabus. Suggestions for practical activities are included, designed to help develop the required experimental skills, with full guidance included on the CD-ROM.

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Study tips throughout the text, exam-style questions at the end of each chapter and a host of revision and practice material on the CD-ROM are designed to help students prepare for their examinations.
Answers to the exam-style

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questions in the Coursebook are
provided on the CD-ROM.
Complete Chemistry for Cambridge
IGCSE®
Target Science: Physics
IGCSE Physics
A Skills-based Course

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A Modern Introduction

These popular and proven workbooks help students build confidence before attempting end-of-chapter problems. They provide short exercises that focus on developing a particular skill, mostly requiring students to draw or interpret sketches and graphs.

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With a clear, concise approach, this comprehensive resource will support your EAL learners in understanding key scientific concepts. A step-by-step approach will help every learner reach their potential in science. This second edition is up-to-date for the latest Cambridge syllabus, and we are

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working with Cambridge towards endorsement.

Demonstrates how anyone in math, science, and engineering can master DFT calculations Density functional theory (DFT) is one of the most frequently used computational tools for studying and predicting the

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properties of isolated molecules, bulk solids, and material interfaces, including surfaces. Although the theoretical underpinnings of DFT are quite complicated, this book demonstrates that the basic concepts underlying the calculations are simple enough to be understood by anyone

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with a background in chemistry,
physics, engineering, or mathematics.
The authors show how the
widespread availability of powerful DFT
codes makes it possible for
students and researchers to apply this
important computational technique to a
broad range of fundamental and

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applied problems. Density Functional Theory: A Practical Introduction offers a concise, easy-to-follow introduction to the key concepts and practical applications of DFT, focusing on plane-wave DFT. The authors have many years of experience introducing DFT to students from a variety of backgrounds.

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The book therefore offers several features that have proven to be helpful in enabling students to master the subject, including: Problem sets in each chapter that give readers the opportunity to test their knowledge by performing their own calculations
Worked examples that demonstrate

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how DFT calculations are used to solve real-world problems Further readings listed in each chapter enabling readers to investigate specific topics in greater depth This text is written at a level suitable for individuals from a variety of scientific, mathematical, and engineering backgrounds. No previous

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experience working with DFT calculations is needed.

DT These highly successful revision guides have been brought right up-to-date for the new A Level specifications introduced in September 2000. DT Oxford Revision Guides are highly effective for both individual revision

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and classroom summary work. The unique visual format makes the key concepts and processes, and the links between them, easier to memorize. DT Students will save valuable revision time by using these notes instead of condensing their own. DT In fact, many students are choosing to buy their own

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copies so that they can colour code or highlight them as they might do with their own revision notes.

Advanced Physics Through Diagrams
For Cambridge Checkpoint and
beyond
Cambridge IGCSE Core Mathematics
4th Edition

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A Strategic Approach, Vol. 1 (Chs
1-15)

Explaining Physics

These resources have been
created for the Cambridge
IGCSE® and O Level Additional
Mathematics syllabuses

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(0606/4037), for first examination from 2020. This coursebook gives clear explanations of new mathematical concepts followed by exercises. This allows students to practise the skills required and gain the confidence

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to apply them. Classroom discussion exercises and extra challenge questions have been designed to deepen students' understanding and stimulate interest in Mathematics. Answers to coursebook questions are in

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the back of the book.

This edition of our successful series to support the Cambridge IGCSE Biology syllabus (0610) is fully updated for the revised syllabus for first examination from 2016. Written by an

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experienced teacher and examiner, Cambridge IGCSE Biology Coursebook with CD-ROM gives comprehensive and accessible coverage of the syllabus content. Suggestions for practical activities are included,

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designed to help develop the required experimental skills, with full guidance included on the CD-ROM. Study tips throughout the text, exam-style questions at the end of each chapter and a host of revision and practice material

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on the CD-ROM are designed to help students prepare for their examinations. Answers to the exam-style questions in the Coursebook are provided on the CD-ROM.

Fully updated and matched to

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the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help

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students to reach their full potential. Written by experienced authors, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The

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step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest

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ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is

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accompanied by a CD with a wealth of extra support for students including practice exam questions, revision checklists and advice on how to prepare for an examination.

The Cambridge IGCSE Physics

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Coursebook has been written and developed to provide full support for the University of Cambridge International Examinations (CIE) IGCSE Physics syllabus (0625). The book is in full colour and includes

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a free CD-ROM. Topics are introduced in terms of their relevance to life in the 21st century. The CD-ROM offers a full range of supporting activities for independent learning, with exemplar examination questions

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and worked answers with commentary. Activity sheets and accompanying notes are also included on the CD-ROM. Written and developed to provide full support for the Cambridge IGCSE Physics syllabus offered

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by CIE.

Nonequilibrium Many-Body
Theory of Quantum Systems
Cambridge IGCSE Physics
Coursebook with CD-ROM
New Coordinated Science:
Physics Students' Book

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Essential Physics for Cambridge IGCSE

The Quest for Artificial Intelligence

The Green's function method is
one of the most powerful and
versatile formalisms in physics,

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and its nonequilibrium version has proved invaluable in many research fields. This book provides a unique, self-contained introduction to nonequilibrium many-body theory. Starting with basic quantum mechanics, the

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authors introduce the equilibrium and nonequilibrium Green's function formalisms within a unified framework called the contour formalism. The physical content of the contour Green's functions and the diagrammatic

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expansions are explained with a focus on the time-dependent aspect. Every result is derived step-by-step, critically discussed and then applied to different physical systems, ranging from molecules and nanostructures to

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metals and insulators. With an abundance of illustrative examples, this accessible book is ideal for graduate students and researchers who are interested in excited state properties of matter and

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nonequilibrium physics.

This is a first undergraduate textbook in Solid State Physics or Condensed Matter Physics. While most textbooks on the subject are extremely dry, this book is written to be much more

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exciting, inspiring, and entertaining.

Provides information in manageable chunks, which is reinforced by questions and activities that encourage students to consider the practical

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application of science to everyday life. This work is useful for Higher Tier GCSE students. The perfect grounding for students intending to take their studies to a more advanced level. Features: Introductory page

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to each unit to bring out the
relevance of the material to
everyday life Simple questions at
the end of each unit to
consolidate learning Helpful
revision summary

Cambridge IGCSE Physics 3rd

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Edition

Endorsed by University of
Cambridge International
Examinations

The Oxford Solid State Basics
Biology for CSEC®
Complete Physics

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A revised and rearranged fourth edition of our previously titled CXC Biology. Comprehensively covering the CSEC syllabus requirements, this full-colour edition contains carefully controlled language to make the text accessible for a wide

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ability range. Biology for CSEC includes questions throughout to test understanding in progressive steps and reinforces new knowledge and concepts through revision questions at the end of each chapter. This edition also

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incorporates many investigations throughout the text, almost all of which could be used for the assessment of practical skills, and a full apparatus list which takes into account the new guidelines on safety. A detailed contents list, a

complete glossary and a comprehensive index are also included.

This series builds on the fact that pictures are easier to memorize than words. Each topic is summarized on a single page using

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annotated diagrams and concise notes with a full index for easy reference. Expert authors have taken the content of the AS and A Level specifications and presented them in a refreshingly clear and concise format.

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The Cambridge IGCSE® & O Level Complete Physics Student Book is at the heart of delivering the course. It has been fully updated and matched to the latest Cambridge IGCSE (0625) & O Level (5054) Physics syllabuses,

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