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## **KARTER** **ARMSTRONG**

Complete Physics for Cambridge IGCSE®  
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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 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 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 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. 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 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 experience working with DFT calculations is needed.

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The Cambridge IGCSE® & O Level Physics Exam Success Guide fully supports the latest Cambridge IGCSE (0625) & O Level (5054) syllabuses and is suitable for use alongside our Complete and Essential IGCSE Physics series. The Guide helps students cope with the increased rigour of linear IGCSEs by bringing clarity and focus to exam preparation and by providing explicit exam guidance. Learners can recap content through easy-to-digest chunks,

apply this via targeted revision activities, review and reflect on their work, and use exam practice and worked examples to achieve best results. The *Physics Exam Success Guide* is written by Anna Harris, an IGCSE Physics examiner and experienced teacher, and Sarah Lloyd author of our *Complete and Essential Physics Workbooks*. Students can benefit from their expertise and excellent understanding of what support learners need in order to reach their full potential. Other resources are also available: a *Practical Workbook*, *Student Books and Workbooks*. The *Practical Workbook* helps students to achieve practical exam success. The *Complete or Essential Student*

*Book* is at the heart of delivering the course and is available in print, online or in a great-value print and online pack. The *Complete or Essential Workbook* is for independent practice and strengthens exam potential inside and outside the classroom. *Ordinary Level Physics* Cambridge University Press

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

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will help every learner reach their potential in science. This second edition is up-to-date for the latest Cambridge syllabus, and we are working with Cambridge towards endorsement.

*Complete Chemistry*

OUP Oxford

Fully updated and matched to 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 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.

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**Complete Physics**

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 Synthesizing specific clusters as a component of useful nanostructures or controlling them as an assembly of nanocomposites is the ultimate aim. In order to understand how to synthesize individual clusters or to investigate its properties, a variety of first-principles and empirical calculations and related computer simulations have been performed alongside numerous experiments.

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Harris. It has been reviewed by subject experts globally to ensure it meets teachers' needs. The book offers a rigorous approach, with a light touch to make it engaging. Varied and flexible assessment-focused support and exam-style questions improve students' performance and help them to progress, while the enriching content

equips them for further study. The Student Book is available in print, online or via a great-value print and online pack. The supporting Exam Success Guide and Practical Workbook help students achieve top marks in their exams, while the Workbook, for independent practice, strengthens exam potential inside and outside the classroom.

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