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This book provides a thorough introduction to Einstein's special theory of relativity, suitable for anyone with a minimum of one year's university physics with calculus. It is divided into fundamental and advanced topics. The first section starts by recalling the Pythagorean rule and its relation to the geometry of space, then covers every aspect of special relativity, including the history. The second section covers the impact of relativity in quantum theory, with an introduction to relativistic quantum mechanics and quantum field theory. It also goes over the group theory of the Lorentz group, a simple introduc-

tion to supersymmetry, and ends with cutting-edge topics such as general relativity, the standard model of elementary particles and its extensions, superstring theory, and a survey of important unsolved problems. Each chapter comes with a set of exercises. The book is accompanied by a CD-ROM illustrating, through interactive animation, classic problems in relativity involving motion.

This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2023. Written by renowned expert authors, our updated resources enable the learner to effectively navigate through the content of the revised Cambridge O Level Physics (5054) syllabus for examination from 2023. - Develop strong practical skills: practical skills features provide guidance on key experiments, interpreting experimental data, and evaluating results; supported by practice questions for preparation for practical exams or alternatives. - Build mathematical skills: worked examples demonstrate the key mathematical skills in scientific contexts; supported by follow-up questions to put th-

ese skills into practice. - Consolidate skills and check understanding: self-assessment questions, exam-style questions and checklists are embedded throughout the book, alongside key definitions of technical terms and a Glossary. - Navigate the syllabus confidently: content flagged clearly with introductions to each topic outlining the learning objectives and context. - Deepen and enhance scientific knowledge: going further boxes throughout encourage students to take learning to the next level.

The Complete Physics for Cambridge IGCSE Student Book's stretching approach is trusted by teachers around the world to support advanced understanding and achievement. With plenty of engaging material, practice questions and practical ideas, this updated edition contains everything your students need to succeed in Cambridge IGCSE Physics. 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, ensuring it covers all the content that students

need to succeed. The Student Book is written by Stephen Pople, experienced and trusted author of our previous, best-selling edition, and Anna 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.

Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b

Prepare students with complete coverage of the revised Cambridge IGCSE™ Physics syllabus (0625/0972) for examination from 2023. Collins Cambridge IGCSE Physics Teacher's Guide is full of lesson ideas, practical instructions, technician's notes, planning support and more.

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<http://www.hoddereducation.co.uk/Product?Product=9781444196283> This title has not been through the Cambridge International endorsement process.