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Although Rutherford's atomic model accounted ... Electrons falling from $n=3,4,5$, or 6 to $n=2$ accounts for Balmer series of spectral lines. De Broglie proposed that electrons, as photons (particles of ...

Quantum Physics

Supported by an online table categorising exercises, a Maple worksheet and an instructors' manual ... A First Course in General Relativity contains carefully worked model answers that should provide ...

A Student's Manual for A First Course in General Relativity

A common conceptual model of electrons within atoms is the "planetary" model ... These types of impurities are called trivalent, because they have 3 valence electrons per atom instead of 4: Compare ...

Discrete Semiconductor Devices and Circuits

O₃ is particularly damaging to athletes; it reaches its highest concentrations on hot bright days in rural areas. The respiratory physiology of exercise suggests that athletes and other exercisers ...

Exercise and outdoor ambient air pollution

3. Choose a better cloth mask If you're still single-masking, just make sure the one you wear is as protective as it can be. As Gandhi recently wrote on Twitter, "There is a still role for basic masks ...

5 Hacks To Make Your Face Mask More Protective

China released the first batch of gamma photon data obtained by the Dark Matter Particle Explorer satellite-based telescope on Tuesday, allowing scientists to improve their hunt for elusive dark ...

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Topic Outlines show parts of the PoS to be covered, the relationship of the topic to aspects of KS2 and KS4 and warn of equipment that may need special preparation time in advance. Topic Maps are provided for students. Lesson Notes relating to each double page spread in the students' book offer objectives, ideas for each lesson, detailed references to the PoS, level descriptions, safety points with references to CLEAPPS HAZCARDS, ICT support, cross-curricular links and equipment lists. Answers to all questions in the students' book are also provided. Additional support material provide: Homework Sheets, Help and Extension Sheets to optimise differentiation (Sc1), Sc1 Skill Sheets, 'Thinking about....' activities to improve integration of CASE activities with Spotlight Science, Revision Quizzes and Checklists, etc. Extra Help Sheets for each topic extend the range of support for Sc1 and Sc2-4. Challenge Sheets for each topic provide a variety of enrichment activities for more able students. They consist of a variety of challenging activities which will present students with opportunities to develop problem-solving, thinking, presentational and interpersonal skills. Technician's Cards include help to prepare lessons, equipment requirements and CLEAPPS HAZCARD references. For more information visit the website at www.spotlightscience.co.uk

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