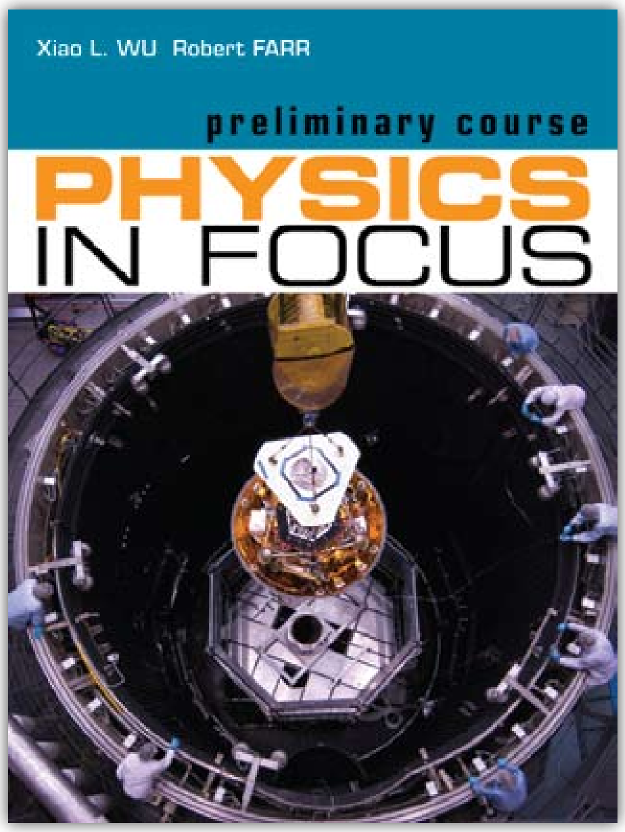
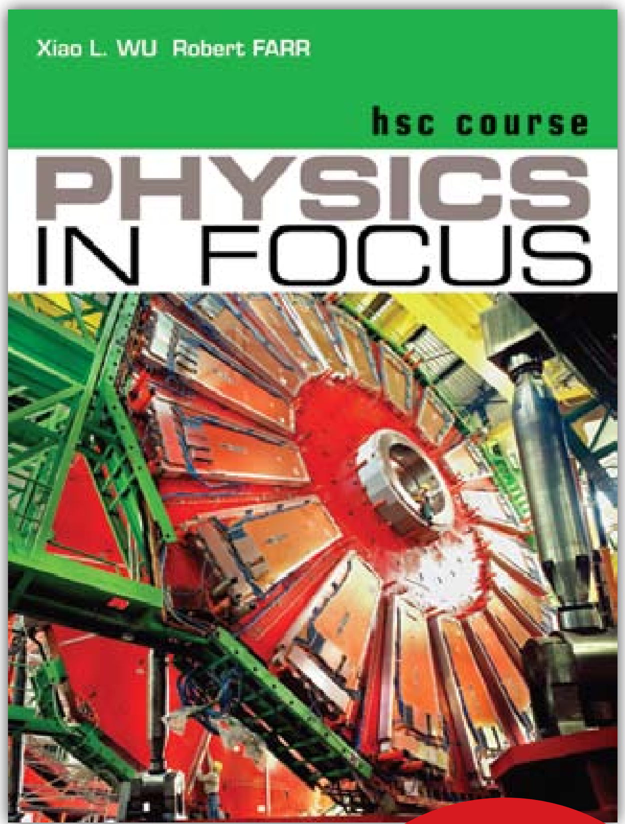
PHYSICS IN FOCUS



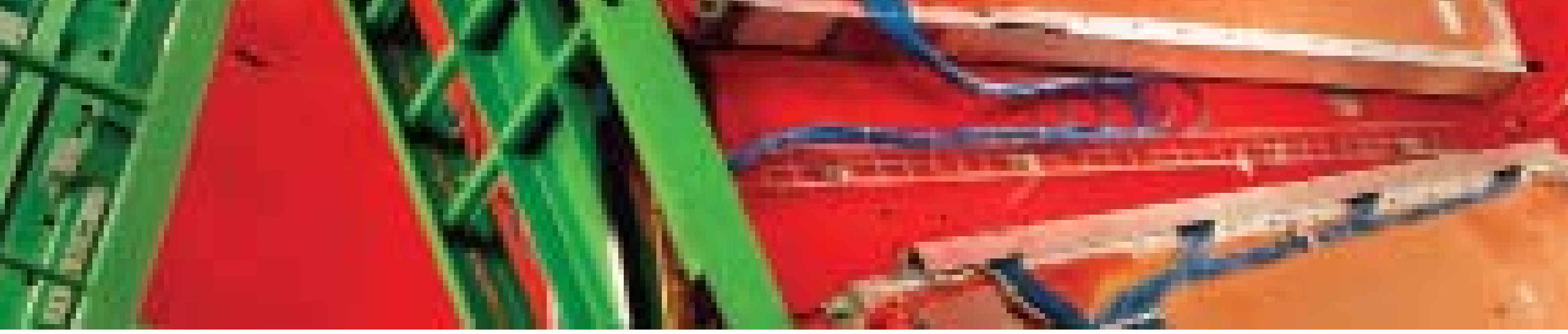


McGraw Hill Education

Ensure exam success with the unique 'dot point' approach of Physics in Focus

FOCUS ON RESULTS

Authors: Xiao L. Wu and Robert Farr



FOCUS ON RESULTS

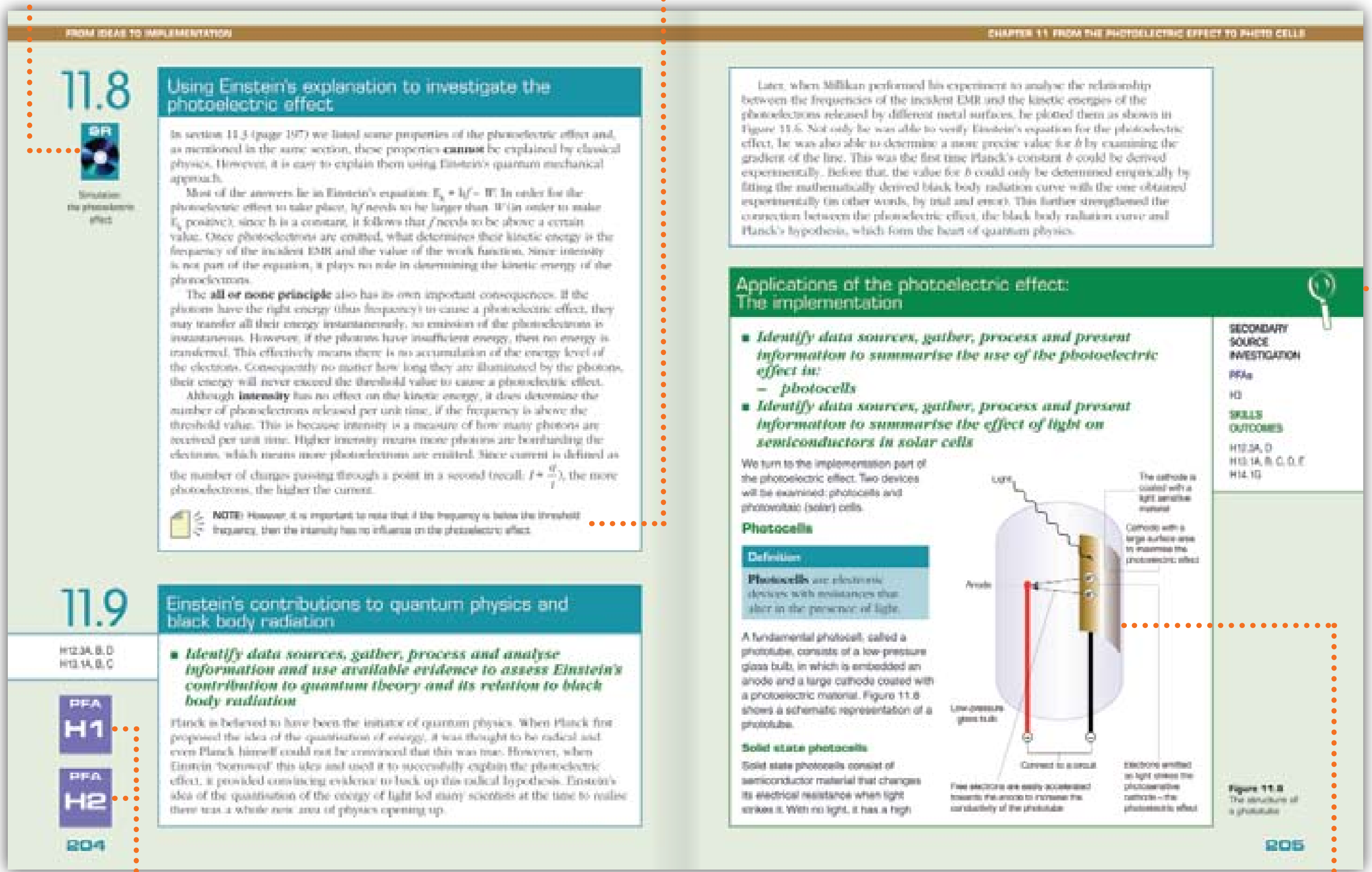
The dynamic new series *Physics in Focus* aims to motivate students and encourage an interest in Physics by giving it new relevance and looking at its impacts on society and the environment throughout history.

Physics in Focus offers a straightforward approach that takes the guesswork out of teaching and learning the NSW Stage 6 Physics syllabus, with a comprehensive format that addresses each syllabus dot point and integrates first-hand and secondary source investigations throughout. Practice questions are included at the end of each chapter and each module to ensure that students are given the opportunity to continually revise.

Icons indicate related content available on the Student Resource CD-ROM

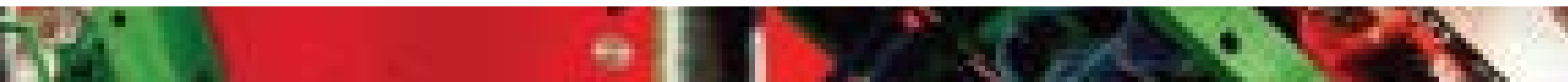
Notes are included throughout the text, highlighting tips and hints or clarifying difficult concepts

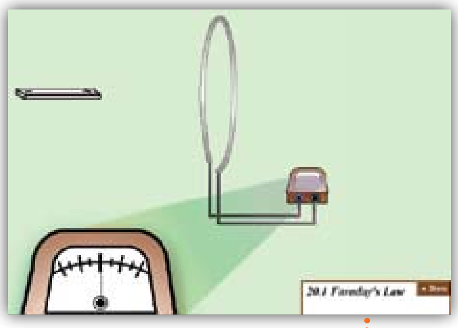
Secondary Source Investigations are clearly marked, with the related PFA and corresponding outcomes listed



Each text clearly indicates where Prescribed Focus Areas (PFAs) are being addressed and reduces the confusion surrounding these concepts by providing specific examples and information relating to these broader issues

Detailed figures and diagrams





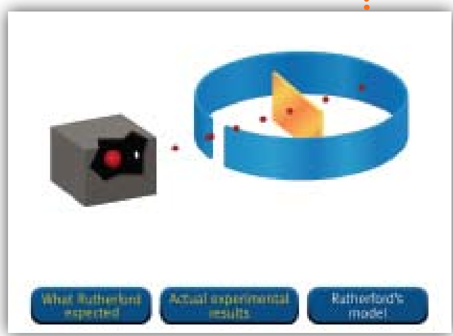
Faraday's Law

FREE STUDENT RESOURCE CD-ROM

The accompanying Student Resource CD-ROM aims to strengthen students' understanding of the topic by making available extra resources such as animated simulations, worked examples and further mathematical work related to the 'solve' and 'analyse' dot points. Extra features include module and option mind maps, videos demonstrating surgical procedures and answers to all chapter questions.

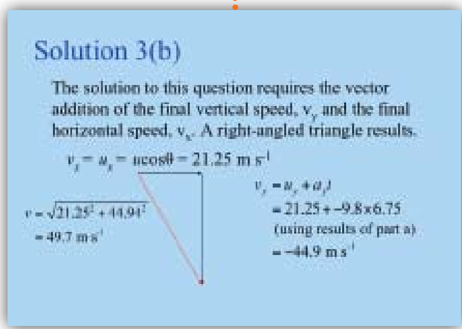
Simulations illustrate different physics concepts to aid understanding

Worked examples take students through problems step-by-step

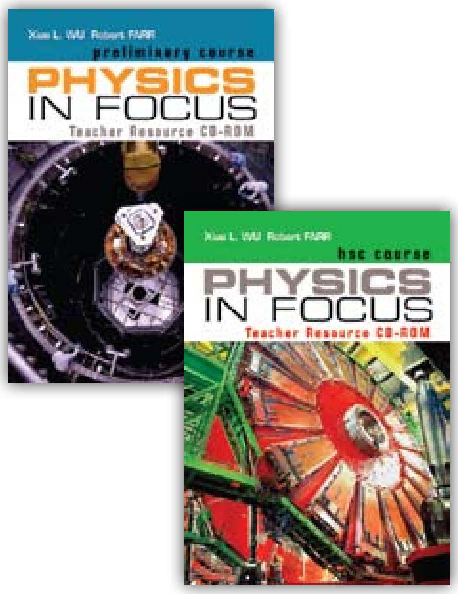


Interactive Rutherford Model

Time Dilation Isolate



Worked Example 3: Projectile Motion



RESOURCES FOR TEACHERS

The *Physics in Focus Teacher Resource CD-ROMs* have been designed in alignment with the student texts and offer a variety of supplementary material to assist teachers in planning lessons that are relevant and engaging.

KEY FEATURES

- Mapping the PFAs — chart illustrating the PFAs within the context of the Physics syllabus
- Working with the Verbs — a series of scaffolds that break down Board of Studies terminology and assist students in answering the higher order verb questions
- Marking rubrics and general marking criteria for extended response answers to higher order verb questions
- Sample answers for the higher order verb revision questions
- Risk Assessment Matrix

ONLINE LEARNING CENTRE

The *Physics in Focus* Online Learning Centre is now live! Visit www.mhhe.com/au/physicsinfocus for series updates, news, author information, sample material and information on related titles.

Online Learning Centre

eNEWSLETTER

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