

Textbook checklist

Title: Classical and Relativistic Mechanics

Authors: David Agmon, Paul Gluck

Edition: First?

Publisher: World Scientific

Price: ???

ISBN: 978-981-283-670-0

“Classical and Relativistic Mechanics” spans the Newtonian mechanics of A-level further mathematics and first year undergraduate courses, also including (the often now optional third year topic of) special relativity. Assuming no prior knowledge of mechanics and with short introductions to each topic, each chapter rapidly gives way to over 900 worked examples, exercises and problems. The examples range from the explanatory to the intuitively challenging, so allowing the book to be both a recommended text as well as a source book for problem sheets, class tests and exams. It provides an excellent grounding in mechanics, preparing the way for more advanced, later, courses in Lagrangian mechanics, fluids or relativity.

Aimed at: Undergraduates in mathematics and physics, earlier sections being accessible to good further mathematics students.

Presentation – layout and clarity:

Systematically laid out, with myriad illustrations.

Would you recommend it?

A wonderful book, full of examples that could be used to put mechanics back properly into the late school/early undergraduate curriculum.

150 words (excluding section headings).