

ATOMS AND NUCLEI

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Written by

G.F. Brand
I.S.Falconer
M.I. Large
I.M. Sefton
J. Ulrichs
G.C. Vorlicek
M.M. Winn

Edited by

I.M.Sefton

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PREFACE

Atoms and Nuclei is one of six units in the course Physics 1 (Life Sciences) and associated courses. It replaces an earlier unit which was called *Radiation*. Unlike the other units in this course there are no video lectures (although a video segment on Nuclear Magnetic Resonance, previously part of the *Electricity* unit may be shown). However, as with the other units, the course is defined, independently of video or live lectures, by the objectives and text in this book.

You will notice that this unit has six chapters instead of the usual eight. Since we were not constrained by the length of a video presentation, the material in this unit has been arranged logically by subject matter, rather than the old style of roughly equal chunks of knowledge. Chapters 1 (Fundamentals) and 3 (The Nucleus) are worth about two chapters each in the older style.

Although all the material in this book is relevant to the course as defined by the objectives, most of the examples and some extra illustrative or background matter, which need not be learned for exams, are printed in a smaller typeface.