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MASTERING PHYSICS

REVISED EDITION

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EDUCATION

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PREFACE TO THE

FIRST EDITION

The book aims to provide a concise, easily readable treatment of all the essential principles contained in O-level physics courses. We have tried to present them with a directness and simplicity that will enable students to achieve maximum comprehension in the shortest possible time. Many diagrams have been included in the text as these are a great help in understanding physics and are especially useful in revision.

Important laws and definitions are set in italic type.

SI units have been used throughout.

Marlborough, 1982

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A.C.
M.J.H.

PREFACE TO THE REVISED EDITION

In this edition we have added some worked examples and provided answers to the questions at the end of the book. We have also extended one or two sections to provide more comprehensive coverage of the many different O-level syllabuses, and have made a few minor changes in the text to improve its clarity.

Marlborough, 1983

H.J.P.K.
F. R. McK.
A. C.
M. J. H.

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Part I The Columbia space shuttle being launched at Cape Canaveral (courtesy Space Frontiers Ltd).

Part II The European Space Agency's European communications satellite (courtesy British Aerospace).

Part III Approach and runway lights as seen from the flight deck of an aircraft (courtesy British Aerospace).

Part IV The lights of Piccadilly Circus (courtesy United Kingdom Atomic Energy Authority).