Part 1 Basic Craft Studies

Electrical Engineering Complement

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Macmillan Engineering Craft Studies

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Electrical Engineering Complement

C E Comber G W Holmes J K Millington R Payne J B Pratley

Macmillan Education

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EDITOR'S NOTE

This series of books meets the requirements of the new Council of Technical Examining Bodies Craft Studies Courses. The texts are presented with great clarity. The large format includes space for written work and sketches by the student, thus reflecting the progressive nature of the new syllabus in which student participation is encouraged.

There are two important aspects of the new CTEB Engineering Craft Studies courses.

(a) They are specially designed for students undergoing planned training, usually on programmes following the recommendations of the Industrial Training Boards.

(b) They form the further education complement of industrial training, involving the students in workshop and laboratory activities, investigations

and projects, rather than relying on conventional listening and note-taking.

The technical studies of the Part 1 course, which extend over a year, are designed to suit both day release and block release students. The course consists of a common engineering syllabus of the basic elements applicable to a number of engineering crafts, and an appropriate complementary syllabus biased towards a particular trade or craft.

Together with the Engineering Base, this book contains all the material in the Part 1 Electrical Engineering course.

Henley College of Further Education
Coventry
June 1970

ABOUT THIS BOOK

This book will become your own complete record of your progress. Important facts are set out on the left-hand side of each page, and the right-hand side has space for you to answer questions and make extra notes and sketches.

The practical investigations are spread throughout the book, but can be carried out as and when equipment is available. By setting out the book in this way we hope to save you a lot of tedious note-taking and make your course more interesting.

NOTE TO TEACHER

Active student participation is encouraged throughout this series of books. This approach will enable you to cover the large amount of material in the new syllabus by releasing, for productive and constructive work, time which would otherwise be spent in note-taking.

Information is presented in parallel with material for student activity: questions to be answered and instructions for sketches and practical investigations. The

material is intended to be at a level which will neither bore nor overwhelm the student, but which will nevertheless demand an effort on his part. These investigations are proposed at the ideal stage of the course but could well be carried out as and when facilities are available. The books will become the comprehensive record of the student's progress and will reflect his particular interests.

A great deal of space is available for extra teaching notes which you may wish to give and for additional work by the students. These books cannot replace the teacher but provide a framework within which he can present information, ideas and principles in his own way. The authors already know how satisfying this student-centred course can be and hope that you and your students will find it equally rewarding.

C. E. Comber
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The continuation of work started in the Engineering Base is indicated by * in the text.