

# Practical Electricity A Laboratory And Lecture Course For First Year Students Of Electrical Engineering Based On The International Definitions Of The Electrical Units Vol 1 1897 Hardcover

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*Practical Electricity & Magnetism* Arkose Press

Excerpt from Practical Electricity, Vol. 1: Laboratory and Lecture Course, for First Year Students of Electrical Engineering, Based on the International Definitions of the Electrical Units; Current, Pressure, Resistance, Energy, Power and Cells Exactly ten years have elapsed since the preface to the first edition of this book was written - a decade which has seen a vast development in the applications of electricity to industrial purposes, and the springing up in all parts of the kingdom of Technical Schools and Colleges where much attention is devoted to the study of electrotechnics. Hence, to-day it is far more easy for a student to connect his experimental apparatus with the electric light mains and use a comparatively large current at a pressure of 100 volts, than it was in 1886 to obtain a small current at a much lower pressure from the battery which he had to set up for the purpose. This, possibility of carrying out the experiments on a larger scale has led to considerable simplification in certain cases; for example, in experimentally determining the heat equivalent of electric energy, it is no longer necessary to distract the beginner's attention with a variety of corrections for the loss of heat, &c. After many issues of the book had appeared in its original form, it seemed desirable to bring it up to date; and since the practice, not unfrequently resorted to by writers, of inserting a number of new patches in an antiquated ground work, would be out of place in a book which had been written to aid electrotechnical teaching and not for purposes of profit, a proposition was made to entirely rewrite it. About

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[A Laboratory and Lecture Course, for First Year Students of Electrical Engineering](#) Blunt Press

Excerpt from Practical Electricity: A Laboratory and Lecture Course for First Year Students of Electrical Engineering, Based on the Practical Definitions of the Electrical Units A new edition of the book being required, advantage has been taken of the occasion to bring the work up to date. Also to modify, where convenient, the symbols used, in accordance with the 'list adopted by the International Electrotechnical Commission in 1913. A copy of this list is given in Appendix vh. The sections on Dry Cells have been rewritten, and that dealing with Storage Cells amplified. The addendum to Appendix I, relating to the practical electrical units, has been revised and extended to include more recent work in this subject. I am again indebted to Mr. Maurice Solomon, of the General Electric Company, for valuable information; to Mr. R. W. Cooper, m.a., Messrs. Benn Brothers, and Edison Accumulators, Limited, for the use of blocks; and to the India Rubber and Gutta Percha Company. My best thanks are also due to Dr. Chas. Chree, m.a., for magnetic data, and to Mr. F. E. Smith, for help in connection with absolute measurements of the primary 'electrical units. The whole world is deeply indebted to Mr. Smith for the masterly way in which he has originated and carried out the researches on electrical standards at the National Physical Laboratory for many years past. His work has placed Britain well ahead of other nations in this branch of precision measurements. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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Excerpt from Practical Electricity: Laboratory and Lecture Course, for First Year Students of Electrical Engineering This book is intended to assist students in acquiring experimentally an exact working knowledge of electric current, difference of potentials, resistance, electromotive force, quantity, capacity, and power. It does not merely contain short instructions for the carrying out of experiments such as may be found in existing books on practical physics, nor, on the other hand, does it resemble certain text-books, mainly of value as electrical dictionaries, which give a little information about everything that can be comprised under the head of electricity, whether it be electric eels, the history of the invention of the telegraph, the aurora, or the earliest forms of frictional machines. During the past few years I have been gradually developing a three years laboratory and lecture course for students of electrical technology, and this book comprises the substance of the first years course, together with some additional matter, mainly in small print. Experience has shown me that after a student has gone intelligently through this course, under proper direction, he has obtained clear notions of the meaning of the ampere, the volt, the ohm, the coulomb, the farad, and the watt, and feels himself familiar with their connection with one another, and with the modes of employing them in actual practice. He has, in fact, mastered the basis of the exact commercial measurement of electrical quantities. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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