A LABORATORY MANUAL

OF

EXPERIMENTAL PHYSICS.

BY

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FROM THE AUTHORS' PREFACE.

At the present day, when students are required to gain knowledge of natural phenomena by performing experiments for themselves in laboratories, every teacher finds that as his classes increase in number, some difficulty is experienced in providing, during a limited time, ample instruction in the matter of details and methods.

During the past few years we ourselves have had such difficulties with large classes; and that is our reason for the appearance of the present work, which is the natural outcome of our experience. We know that it will be of service to our own students, and hope that it will be appreciated by those engaged in teaching Experimental Physics elsewhere.

The book contains a series of elementary experiments specially adapted for students who have had but little acquaintance with higher mathematical methods: these are arranged, as far as possible, in order of difficulty. There is also an advanced course of experimental work in Acoustics, Heat, and Electricity and Magnetism, which is intended for those who have taken the elementary course.

The experiments in Acoustics are simple, and of such a nature that the most of them can be performed by beginners in the study of Physics; those in Heat, although not requiring more than an ordinary acquaintance with Arithmetic, are more tedious and apt to test the patience of the experimenter; while the course in Electricity and Magnetism has been arranged to illustrate the fundamental laws of the mathematical theory, and involves a good working knowledge of the Calculus.

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