

# Comprehensive Practical Physics Class Xii Lab Manual

An Introductory Course in Practical Physics  
Comprehensive Practical Physics XI  
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Barkla Northwestern University (Evanston, Ill.) Donald Wallis Scott University of Sydney Northwestern University (Evanston, Ill.)  
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excerpt from a text book of practical physics the following pages are intended to serve as a book of refer ence to the student working in a physical laboratory the experiments described are not intended for a beginner but are suited for a student who has already spent a little time in the laboratory and worked through a more elementary course of experiments such as those described in the author s elementary practical physics it is not intended or expected that any one class will work through all the experiments described in this book but that the teacher will select those which he considers most suitable being guided by the requirements of his pupils and the resources of his laboratory it is however hoped that teachers and students will find that all the experiments which can be performed with advantage in a laboratory having the ordinary equipment are described about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://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

excerpt from laboratory projects in physics a manual of practical experiments for beginners these experiments have been organized for the purpose of giving concrete expression in the field of physics to the recent tendencies in the teaching of science with respect to aim subject matter and method the physics course in a modern high school should be organized according to the recognized function of education in a democratic society it should include units of study which the masses of boys and girls of high school age are able to pursue with profit it should proceed toward an organization of practical situations activities and phenomena the value of which will be recognized and approved by teachers students parents administrators of education and others who are responsible

for the work which boys and girls do in the high school it is intended that these experiments should form part of a physics course which includes class discussions and demonstrations they were devised and used for several years in a beginners course in practical physics they differ from the conventional physics laboratory experiments in that they deal more directly with the mechanisms and appliances of everyday experience the materials and procedure have been worked out in detail in order to aid the busy science teacher in the laborious task of placing practical laboratory study upon a workable basis a large list of projects and problems is offered in a year s course of thirty six to forty weeks perhaps not more than half of the ninety five experiments can be performed the complete list represents two years work unless more time is assigned to laboratory study than is the custom about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://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

excerpt from notes on practical physics for junior students the following notes were written primarily for the use of the students in the junior practical physics class in the university of edinburgh it is hoped they will be found useful for the senior classes in schools especially for those preparing for entrance to the university these notes give the general outline of the methods to be pursued detailed descriptions have been purposely avoided as they frequently obscure the essential features of an experiment while knowledge of apparatus and of its use can best be obtained in the laboratory sufficient detail is however given to enable a student with some knowledge of physics to carry out the experiments with a minimum of attention from a teacher or demonstrator in general only such experiments have been described as involve the use of simple apparatus this has in some cases necessitated the omission of better methods which though simple require apparatus of more expensive type the chapter on treatment of observations and determination of error is intended for students with more advanced knowledge of the subject and may be omitted by those beginning the study of practical physics we are indebted to mr w g pye of cambridge for the use of blocks of figures 3 4 5

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from the preface the aim of the present work is to furnish the student with a laboratory manual of physical processes and measurements in which the explanation of the theory and the description of the method of manipulation of each experiment is so complete as to preclude the necessity of consulting either another book or a laboratory instructor the work is so designed that it can be begun at the commencement of the second college year in the selection of experiments the plan has been to include only such methods as are strictly scientific that have as practical a bent as possible and that can be depended upon to give good results in the hands of the average student this enlists the energy of the student and saves that of the instructor although the majority of the experiments are quantitative measurements some few methods and principles which experience has found to give difficulty to the average college student have been illustrated by qualitative exercises it has been assumed that the experiment is rare that is so important as to justify a student performing it before he understands the theory involved and the derivation of the formulae required consequently the theory of each experiment is given in detail and the required formula developed at length since in general a student can appreciate most completely the physical significance of the various steps in an analytical discussion when couched in terms with which he has been for some time acquainted it has appeared desirable to use as elementary mathematical methods as possible even though brevity be thereby sometimes sacrificed

in accordance to the new syllabus of central board of secondary education cbse new delhi and other state boards following cbse curriculum

excerpt from notes on practical physics for junior students the following notes were written primarily for the use of the students in the junior practical physics class in the university of edinburgh it is hoped they will be found useful for the senior classes in schools especially for those preparing for entrance to the university about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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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