

**CEMENT LABORATORY
MANUAL: A MANUAL OF
INSTRUCTIONS
FOR THE USE OF STUDENTS IN
CEMENT LABORATORY PRACTICE**

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Cement Laboratory Manual: A Manual of Instructions for the Use of Students in Cement
Laboratory Practice by L. A. Waterbury

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L. A. WATERBURY

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A MANUAL OF INSTRUCTIONS FOR THE
USE OF STUDENTS IN CEMENT
LABORATORY PRACTICE

BY

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PREFACE

THIS manual has been prepared for the use of students taking the course in cement laboratory practice in the University of Illinois, and for the use of others who may have occasion to use such a laboratory manual. Instructions for the problems originally used in the course mentioned were devised by Ira O. Baker, Professor of Civil Engineering, University of Illinois, under whose direction the author had charge of the cement laboratory at that institution for three years. This manual has been prepared by revising and extending the instructions already in use. The problems which are given herein are suitable to class use and are not intended to serve as instructions for the testing of cements for commercial purposes. However, the problems have been designed to include all of the tests which are ordinarily made, so that a student who shall have completed these problems should be able to do testing for commercial purposes, although the experience which is required for the production of uniformly satisfactory results in the latter class of work can be obtained only by a considerable amount of practice, and cannot be obtained to any considerable extent by a laboratory

course which is intended chiefly to teach methods of testing.

The writer is very much indebted to Professor Ira O. Baker for suggestions and assistance in the preparation of this manual.

L. A. W.

July, 1908.

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