

**THE CHEMICAL AND  
PHYSICAL EXAMINATION  
OF PORTLAND CEMENT**

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The chemical and physical examination of Portland cement by Richard K. Meade

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**RICHARD K. MEADE**

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Mea.

THE  
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OF  
Portland Cement

BY  
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## PREFACE

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In the preparation of this little manual, the author has drawn largely for advice upon his friends and others engaged in the cement industry who were kind enough to give him help, and it is to thank these that he has prefixed this note. Aside from this, it may not be amiss to say here that this book is the outcome of the author's interest in the rapidly growing Portland cement industry in America. The methods both of chemical analysis and physical examination have been explained with, what may seem to the experienced chemist, useless detail, but it must be remembered that many of the cement manufacturing companies are employing young men fresh from technical schools, whose college training may be excellent, but whose laboratory experience upon work of this kind is usually limited to a few analyses. Probably the greater number of young cement chemists are required to make physical tests without having had any training whatever in the subject. It is for these, as well as the young engineer and the student of chemistry and engineering, that the notes and explanations have been added to the methods. The author wishes to acknowledge his indebtedness to Prof. J. Madison Porter, C.E., of Lafayette College, and to Dr. P. W. Shimer, of Easton, Pa., for their kind help. Professor Porter read the section upon the physical testing of cement and added much to its value by his suggestions for its improvement. Others who have kindly

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LAFAYETTE COLLEGE, EASTON, PA., JUNE, 1901.



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