

**A TREATISE ON CEMENT SPECIFICATIONS:
INCLUDING THE GENERAL USE, PURCHASE,
STORAGE, INSPECTION AND TEST
REQUIREMENTS OF PORTLAND, NATURAL,
PUZZOLAN (SLAG) AND SILICA (SAND)
CEMENT AND METHODS OF TESTING AND
ANALYSIS OF PORTLAND CEMENT**

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A Treatise on Cement Specifications: Including the General Use, Purchase, Storage, Inspection and Test Requirements of Portland, Natural, Puzzolan (Slag) and Silica (Sand) Cements and Methods of Testing and Analysis of Portland Cement by Jerome Cochran

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JEROME COCHRAN

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The D. Van Nostrand Company
intend this book to be sold to the Public
at the advertised price, and supply it to
the Trade on terms which will not allow
of reduction.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in the context of public administration and government operations. This section outlines the various methods and tools used to collect, store, and analyze data, ensuring that all information is readily accessible and up-to-date.

2. The second part of the document focuses on the implementation of these record-keeping practices. It provides a detailed overview of the organizational structure and processes involved in managing records, from the initial data entry to the final archiving and retrieval stages. This section also addresses the challenges and solutions associated with maintaining large-scale data systems, such as ensuring data integrity, security, and compliance with relevant regulations.

3. The third part of the document discusses the role of technology in modern record-keeping. It explores the use of digital tools and platforms to streamline data management processes, improve efficiency, and reduce the risk of human error. This section highlights the benefits of cloud-based storage and data analytics, as well as the importance of regular software updates and security audits to protect sensitive information.

4. The fourth part of the document addresses the legal and ethical considerations surrounding record-keeping. It discusses the requirements for data protection, privacy, and access, as well as the potential consequences of non-compliance. This section also touches on the importance of maintaining accurate records for legal and historical purposes, and the role of record-keeping in ensuring the integrity of public records.

5. The fifth and final part of the document provides a summary of the key findings and recommendations. It emphasizes the need for a comprehensive and integrated approach to record-keeping, one that combines robust data management practices with advanced technology and strong legal and ethical foundations. The document concludes by encouraging continued research and innovation in the field of record-keeping to meet the evolving needs of public administration and government operations.

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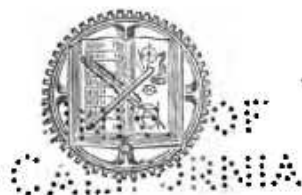
AND

METHODS OF TESTING AND ANALYSIS OF PORTLAND CEMENT

BY

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Author of "Inspection of Concrete Construction"
and Numerous Technical Contributions



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PREFACE

IN the preparation of this treatise on specifications for cement (one of the most important materials used in construction work of any magnitude) the constant aim has been to present a set of specifications that would not only be consistent throughout, but which, at the same time, conforms to modern practice. The author is well aware of the fact, however, that no specifications for cement will ever be devised which will meet all mental conditions of engineers and all constructional and manufacturing conditions of actual work, and the following specifications do not perform the impossible, as there are a few matters of detail embraced herein where there is difference of opinion among able engineers, many of whom are at least as competent as the author to determine what is best. It is not expected that all the provisions found herein will be applicable to every class of construction work. A careful study must be made, for reasons which will suggest themselves, of the surrounding conditions and limitations, and these specifications modified in accordance.

In the preparation of these specifications the endeavor has been to observe a logical order and a due proportion between different parts. Great care has been taken in classifying and arranging the specifications and it will be helpful to the reader to notice that they are divided successively into parts, sections and paragraphs. Every precaution has been taken to present the specifications in a form for convenient practical use and ready reference. The table of contents shows the general scope of the specifications and a very full index makes everything in the specifications easy of access.

The engineering periodicals and transactions contain a large number of articles wherein specification requirements for cement

play a very important part in construction work, and hence numerous but carefully selected references to them are made a prominent feature of this work. Besides directing the student and young engineer in his preparation of similar specifications, they encourage him to form the habit of consulting these great cyclopedias of engineering practice. No attempt is made to refer to all the engineering periodicals published in this country nor to include every article on the subject to be found in the periodicals selected. The aim has been merely to give a sufficient number of selected references, to enable the student or young engineer to study the methods employed by others in drawing up cement specifications.

While this work is in some respects imperfect and there is no doubt room for the addition of much information, there has not heretofore been anything like as complete a presentation of the subject; and in consideration of this fact the reader is requested not to be too critical.

JEROME COCHRAN, C.E.

DETROIT, MICHIGAN,
May, 1912.

TABLE OF CONTENTS

	PAGE
INTRODUCTION.....	ix
Preparation of Specifications for Cement.....	ix
Selection of Cement.....	xi

PART I

GENERAL CONDITIONS GOVERNING USE OF CEMENT

REC.

1. General Requirements.....	1
2. Brand and Composition of Cement.....	5
3. Silica Cement or Sand Cement.....	7

PART II

FURNISHING CEMENT TO THE CONTRACTOR

1. General Requirements.....	9
2. Unnecessary Use and Waste of Cement.....	11

PART III

PURCHASE OF CEMENT FROM MANUFACTURERS

1. Purchase Tests and Requirements.....	12
2. Acceptance Tests and Requirements.....	14
3. Form of Proposal for Furnishing Cement.....	16

PART IV

DELIVERY AND STORAGE OF CEMENT

1. Delivery of Cement.....	18
2. Storage of Cement.....	21