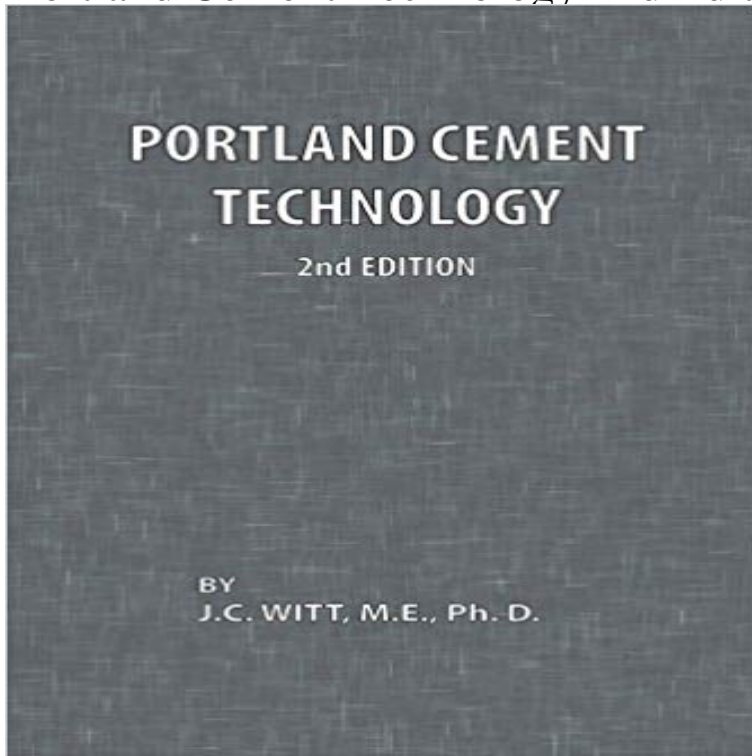


Portland Cement Technology 2nd Edition



Contents - Introduction - History of the Cement Industry - Raw Materials - Proportioning Raw Materials - Preparing the Raw Mix - Fuels - Clinkering - Power - Grinding the Clinker - Storing, Packing, Loading, Shipping - Plant Design - Experimental Engineering - The Nature of Cement - Analyses and Tests - Uniformity - The Nonaqueous Liquid Process - The Counter-Cyclone Clinkerer - Research in Science and in Engineering - Concrete Materials - Proportioning Materials for Concrete - Concrete Technology - Some Concrete Accomplishments - The Iris Color Process - Miscellany - Index - INTRODUCTION - Select some raw materials, proportion them, grind, heat, cool, and grind again. Reduced to simplest terms, this is the process for manufacturing portland cement. Mixing the cement, thus produced, with aggregates and water results in mortar or concrete, to obtain which cement is manufactured. What raw materials should be selected? How are they proportioned? How finely are they ground? To what temperature are they heated? The attempt is made to answer these and many other somewhat similar questions, on the basis of the information now available in the industry. The acquisition of this information has resulted from the manufacture of portland cement for well over a century, from research, and from numerous trial and error procedures. This is a practical text and reference book. It is written for persons, technical and non-technical, inside and outside the cement and concrete industries, and in fact for everyone sufficiently interested in cement to reach for a book on the subject. Theoretical considerations have been kept at the minimum, consistent with a clear understanding of the subject. In conformity with the same policy, the number of formulas and tables has been restricted in the interest of continuity of the text. To some extent, references have been

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