



Cement Manufacturer's Handbook

By Kurt E. Peray

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This unique handbook contains the most essential engineering formulas used in the cement manufacturing process. All formulas are presented in both English and metric systems of units. Examples are given to familiarize the reader with the usefulness of these formulas. The book can be used as a text manual for courses in cement technology, and as a reference for solving operating problems. The book is equally valuable for the manager supervisor, chemist, and operator as it is to the cement plant engineer. CONTENTS: Cement Chemistry and Quality Control; Kiln Feed Mix Calculations; Chemical and Physical Properties of Materials; Technical Investigations of Kiln Performance; Heat Balance; Sulfur and Alkali Balance in Rotary Kilns; Chain Systems Designs; Cooler Air Balance Technical Investigation of Grinding Circuits; Ball Charges; Grinding Aid Solutions; Useful Formulas in Stearn Engineering Electrical Engineering; Fan Engineering; Fluid Flow; Physical Chemistry; Heat Transfer and Dust Collection; Fundamental Formulas in Algebra; Trigonometry; Statistics; Finances; Safety and Geometry; Conversion Factors for all Units. These titles may also pair well with this book: F.M. LEA's, THE CHEMISTRY OF CEMENT AND CONCRETE, Third Edition: ISBN 978-0-8206-0212-7; Kurt Peray, The Rotary Cement Kiln 2nd Ed.: ISBN 978-0-8206-0-367-4. Visit us at www.chemical-publishing.com

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