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The book explains theoretical aspects of various processes in making cement at various stages as also steps in sizing of major machinery and auxiliaries. All in all it is a very comprehensive and practical handbook. The contents of the book are divided in eight sections covering all aspects of designing cement plants from scratch to guide step by step through various stages involved in setting up a cement plant: 1. Basics 2. Machinery used in making cement 3. Techno-economic feasibility studies 4. Civil design and construction 5. Electricals and instrumentation 6. Layouts and detailed engineering 7. Selecting and ordering machinery 8. Reference section It will be of great use to Cement Plant Consultants, Cement Technologists, and Cement Machinery Manufactures and most certainly to Entrepreneurs and Cement Plant Personnel, Staff of Design and Drawing Offices who have the responsibility to develop layouts would find in it a very handy guide.

Cement production is known to be a polluting and energy-intensive industry. Cement plants account for 5 percent of global emissions of carbon dioxide and one of the main causes of global warming. However, cement it is literally the glue of progress. Designing Green Cement Plants provides the tools and techniques for designing new large cement plants that would promote sustainable growth, preserve natural resources to the maximum possible extent and make least possible additions to the Greenhouse Gases that cause global warming. Brief and but authoritative, this title embraces new technologies and methods such as Carbon Capture and Sequestration, as well as methods for harnessing renewable energy sources such as wind and solar. The author also discusses the efficient use of energy and materials through the use recycling. In addition, this book also examines the possibilities of developing green cement substitutes such as Calera, Calix, Novacem, Aether and Geopolymer cements. Includes the tools and methods for reducing the emissions of greenhouse Gases Explores technologies such as: carbon capture and storage and substitute cements Provides essential data to determining the unique factors involved in designing large new green cement plants Includes interactive excel spreadsheets Methods for performing a cost benefits analysis for the production of green cements as opposed to conventional OPC

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.

Handbook of Natural Gas Transmission and Processing gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. The authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects. Provides practicing engineers critical information on all aspects of gas gathering, processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency, quality and profit

A unique publication, this set of book and CD-ROM is a handy tool for the design and operation of cement plants. Operation requires many calculations that have to be done repetitively. With this book of nomograms – graphical representations of two or more variables related to one another in such a way that a third one can be read from the nomogram - these workouts can be eliminated and the right values can be found with minimum effort with the user-friendly CD-ROM. The CD-ROM pdf pages represent the nomogram and explanatory text in a single screen. The text describes the use, input, output, scale and unit of the nomogram, plus an illustrative example. When clicking on the nomogram, it appears in its original AutoCad version, which allows the reader to draw lines to obtain the results of new inputs. Most nomograms are single-step graphics, some require of two or three progressive steps. The nomograms are grouped in four sections: 1. Basics (capacities and rates of overall cement plant; crushing, grinding; feed rates in various sections with necessary margins; quality calculations, such as the proportioning of raw materials and for arriving at related parameters; carbonates, oxides and ratios of raw meal to clinker); 2. Physical (temperatures, altitudes, atmospheric pressures and densities; areas and volumes ; volumes of silos and stock piles; half angle at centre of mills and kilns and related variables; aspects of system design); 3. Processes (calculations related to calorific values of fuel and its consumption, combustion and drying; log mean temperature difference; heat content of air, clinker, calculations related to cooling), and 4. Machinery (ball mill design, vertical roller mills, preheater design, fuel fired in calciner, kiln capacity impact, kiln sizing and design, conventional clinker coolers, pneumatic conveying, mechanical conveyors, bag filter sizing, SCAs or ESPs for different efficiencies).

A comprehensive review of current innovations in the manufacture of portland and blended cement is included in this single volume. Starting with a fascinating historical background, the book quickly leads into practical applications and innovations. Drawing from experts from around the world, the book discusses all issues involved with manufacture of cement. Major sections of the book are devoted to materials and fuels; pyroprocessing and kiln operation; finish milling and material handling; optimization and control; environmental issues; health and safety; analytical techniques; cement types, specifications, and properties; and future trends.

Lea's Chemistry of Cement and Concrete, Fifth Edition, examines the suitability and durability of different types of cements and concretes, their manufacturing techniques and the role that aggregates and additives play in achieving concrete's full potential of delivering a high-quality, long-lasting, competitive and sustainable product. Provides a 60% revision over the fourth edition last published in 2004 Includes updated chapters that represent the latest technological advances in the industry, including, but not exclusive to the production of low-energy cements, cement admixtures and concrete aggregates Presents expanded coverage of the suitability and durability of materials aggregates and additives

This book was written specifically for boiler plant operators and supervisors who want to learn how to lower plant operating costs, as well as how to operate plants of all types and sizes more wisely. This newly revised edition provides guidelines for HRSGs, combined cycle systems, and environmental effects of boiler operation. Also included is a new chapter on refrigeration systems which addresses the environmental effects of inadvertent and intentional discharges of refrigerants. Going beyond the basics of "keeping the pressure up," the author explains in clear terms how to set effective priorities to assure optimum plant operation, including safety, continuity of operation, damage prevention, managing environmental impact, training replacement plant operators, logging and preserving historical data, and operating the plant economically.

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