

Cement Production Technology

Principles and Practice

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This multidisciplinary title on cement production technology covers the entire process spectrum of cement production, starting from extraction and winning of natural raw materials to the finished products including the environmental impacts and research trends.

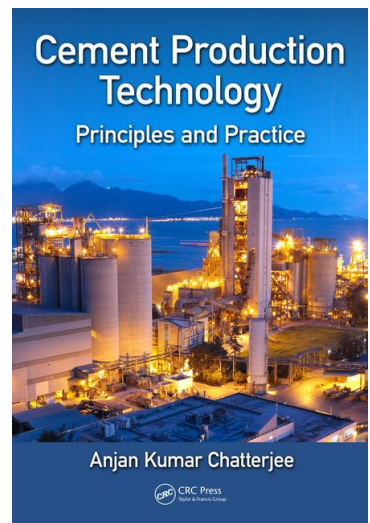
KEY FEATURES

- Explores the subject of cement production with an effective combination of materials science and technology along with good analysis of cement production sector
- All the unit processes of cement production with their back-up principles and practice will be available in one volume
- Includes back-up theoretical inputs to understand the practice
- Discusses environmental management and sustainability issues as required to run a plant
- Details process and product research trends of relevance to the industry

SELECTED CONTENTS

1. BASICS OF MINERAL RESOURCES FOR CEMENT PRODUCTION. 2. RAW MIX PROPORTIONING, PROCESSING AND BURNABILITY ASSESSMENT. 3. FUELS COMMONLY IN USE FOR CLINKER PRODUCTION. 4. ALTERNATIVE FUELS AND RAW MATERIALS. 5. PYROPROCESSING AND CLINKER COOLING. 6. CLINKER GRINDING AND CEMENT MAKING. 7. COMPOSITION AND PROPERTIES OF PORTLAND CEMENTS. 8. ADVANCES IN PLANT-BASED QUALITY CONTROL PRACTICE. 9. ENVIRONMENTAL MITIGATION AND POLLUTION CONTROL TECHNOLOGIES. 10. TRENDS OF RESEARCH AND DEVELOPMENT IN CEMENT MANUFACTURE AND APPLICATION. 11. GLOBAL AND REGIONAL GROWTH TRENDS IN CEMENT PRODUCTION.

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