

Concrete construction practical problems and solutions

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Abstrak

The book consists of two parts. The first part provides basic information about normal concrete, its grades used on sites and various kinds of modified concretes such as fiber-reinforced concrete, sulphur concrete, roller compacted concrete, high performance concrete, ultra- high performance concrete, and flowing concrete. . It further addresses physical properties of concrete and various types of Portland cement, blended cements, admixtures, additives including properties of aggregates and their influence. The second part of the book highlights the principal causes of concrete deterioration along with protective measures, resulting from incorrect selection of constituent materials, poor construction methods, external factors, chemical attack, corrosion problems, hot and cold weather effects, and the various errors in designing and detailing. Featuring an extensive bibliography of the highly adopted standards as well as manuals and journals critical to the construction industry at the end of each chapter, the volume offers readers an advanced understanding of the theory and practical application of concrete technology and international standards in North America and Britain.