



CONCRETE TECHNOLOGY

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REVISED

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ABOUT THE BOOK

This book provides the basic principles and sufficient information on the state of art relating to all facets of manufacturing and production processes in the making of structural concrete. To cater to the needs of the undergraduate level courses, more emphasis is laid on the fundamentals and practice.

Entire book has been revised as per the revisions in various B.I.S. codes related to Cement, Sand, Aggregate, Concrete Mix Design, etc. The chapter on Concrete Mix Design is entirely rewritten. A large number of Multiple Choice Questions have been added in each chapter.

In addition to the traditional concrete technology topics dealing with the principles of concrete and concrete – making materials, the current state of the art of self compacting concrete, special concretes, concreting techniques, non-destructive testing (NDT), repairs and strengthening of concrete structures, fly ash concrete, etc. has been included.

The book incorporates relevant information on numerous Indian standard specifications and code of practices relating to cement and concrete including the latest revision of IS : 456–2000.

The entire subject matter is canvassed in the chapters like Cement; Types of Cement; Testing of Cement; Aggregates; Water for Construction; Admixtures; Fresh Concrete; Production of Concrete; Strength of Concrete; Elasticity, Creep and Shrinkage; Durability of Concrete; Testing of Hardened Concrete; Quality Control of Concrete; Concrete Mix Design; Special Concretes and Concreting Techniques; Repair and Rehabilitation of Concrete Structures; Fly Ash Concrete. The book now Contains:

- 194 Self explanatory neat diagrams**
- 140 Useful tables**
- 18 Worked Examples**
- 212 Short Questions with Answers**
- 287 Objective Questions**
- 229 Exercise Questions.**

The book should prove to be extremely useful to the Civil and Structural Engineering students preparing for the Degree Examinations of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses as well as for the A.M.I.E., U.P.S.C., G.A.T.E., I.E.S., R.R.B. and other similar competitive and professional examinations. It should also prove of interest to the practising professionals.

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