



# ESSENTIALS OF CIVIL ENGINEERING

[ ELEMENTS OF CIVIL ENGINEERING ]



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## ABOUT THE BOOK

This book aims at presenting the topics of *Elements of Civil Engineering* written in a simple manner. The subject-matter is characterized by comprehension as well as methodical and easy-to-follow style. The book contains total Six Sections as mentioned below:

- Section I: Scope of Civil Engineering (Chapter 1)  
Section II: Surveying. . . . . (Chapter 2 to Chapter 12)  
Section III: Construction Materials . . . . . (Chapter 13 to Chapter 28)  
Section IV: Elements of Building Construction . . . . . (Chapter 29 to Chapter 30)  
Section V: Water Resources Development . . . . . (Chapter 31 to Chapter 33)  
Section VI: Transportation Engineering . . . . . (Chapter 34 to Chapter 36).

Every topic in this text book is explained in very simple and lucid language. All 36 chapters contain sufficient self explanatory matter, neat sketches, solved and unsolved examples and questions asked in G.T.U. Exams. The students will be able to prepare themselves by solving typical questions given at the end of each chapter. Previous years' examination papers (with solution) of G.T.U. are given at the end of book for better preparation.

*Salient features of this book are:*

- \* 588 Self-explanatory and neatly drawn sketches;
- \* 87 Illustrative problems;
- \* 85 Useful tables;
- \* 640 Typical questions at the end of the chapters;
- \* 176 Questions asked in G.T.U. Exams.

The text-matter has been arranged systematically according to the curriculum developed by the Gujarat Technological University (G.T.U.) for the subject **ELEMENTS OF CIVIL ENGINEERING [Subject code 110004 (Revised)]** for the First year Degree Engineering students [Common to All Branches] and also it should prove to be extremely useful to the 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. and other similar competitive and professional examinations. It should also prove great of interest and practical use to the practising professionals.

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