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The Book Provides A Lucid And Step-By-Step Treatment Of The Various Principles, Methods And Instruments Involved In Land Surveying. Modern Methods And Techniques Are Emphasised Throughout The Text. After Presenting The Basic Concepts And Definitions, The Book Explains Errors In Survey Measurement And Their Propagation. Survey Measurements Are Detailed Next. These Include Horizontal And Vertical Distances, Slope, Elevation, Angle And Direction. Measurement Using Stadia Tacheometry Is Then Highlighted, Followed By Contouring And Uses Of Contours In Civil Engineering Projects. Traversing Is Then Explained, Followed By A Detailed Discussion Of Plotting Of Maps By Plane Tabling. The Use Of Tangent Clinometer In Plane Tabling Has Been

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Suitably Highlighted The Book Then Explains The Calculation Of Areas And Volumes From The Survey Measurements. The Last Chapter Features Various Types Of Curves And Includes A Variety Of Field Problems In Setting Out The Curves. Suitable Diagrams, Illustrative Examples And Practice Problems Are Included Throughout The Book. The Book Would Serve As An Excellent Text For Degree And Diploma Students Of Civil Engineering. Amie Candidates, And Practicing Engineers Would Also Find This Book Extremely Useful.

CONTENTS: Part 1: Working Stress Method

1. Introduction
2. Theory of reinforced beams and Slabs
3. Shear and bond
4. Torsion
5. Doubly reinforced beams
6. T and L-Beams
7. Design of beams and Slabs
8. Design of stair cases
9. Reinforced brick and hollow tile roofs
10. Two-way slabs
11. Circular slabs
12. Flat slabs
13. Axially

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loaded columns 14. Combined direct and bending stresses
15. Continuous and isolated footings 16. Combined footings 17. Pile
foundations 18. Retaining Walls Part 11: Water Tanks 19. Domes
20. Beams curved in plan 21. Water tanks-1 Simple cases 22. Water
tanks-11 Circular & INTZE Tanks 23. Water tanks-111: Rectangular
tanks 24. Water tanks-IV: Underground tanks Part 111: Miscellaneous
Structures 25. Reinforced concrete pipes 26. Bunkers and silos
27. Chimneys 28. Portal frames 29. Building frames Part IV: Concrete
Bridges 30. Aqueducts and box culverts 31. Concrete Bridges Part
V: Limit State Design 32. Design concepts 33. Singly reinforced
section 34. Doubly reinforced sections 35. T and L-Beams 36. Shear
bond and torsion 37. Design of beams and slabs 38. Axially loaded
columns 39. Columns with Uniaxial and Biaxial bending 40. Design
of stair cases 41. Two way slabs 42. Circular slabs 43. Yield Line

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theory and design of slabs 44. Foundations Part IV: Prestressed concrete and Miscellaneous Topics 45. Prestressed concrete 46. Shrinkage and creep 47. Form-Work 48. Tests for cement and concrete

Surveying and Field Work - I (Hindi Medium)

A Textbook of Strength of Materials

Plane Surveying

A Course in Modern Control System

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with

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their types and nature are described along with measurement of horizontal distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying. KEY FEATURES :

Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of

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problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering Services exams.

This book presents, in SI units, the various methods and concepts of surveying, laying greater emphasis on those that are commonly used. Relevant historical aspects are given. Tracing the development of the subject and the methods. The book also gives an overview of certain advanced and modern surveying techniques such as precise traversing and levelling, aerial photogrammetry, airphoto interpretation, electronic distance measurement and remote sensing.

**Reference Book on Computer Aided Design Lab Man
Waste Water Engineering
(in S.I. Units)**

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Project Planning and Control with PERT & CPM

Designed as per major Indian universities curricula for chemistry undergraduates, this multicolour textbook provides comprehensive coverage to all the important topics in Organic Chemistry. Special emphasis has been given to the mechanism of reactions; and new concepts have been given in stereochemistry and spectroscopy along with solved and unsolved problems. ?

A comprehensive and lucidly written book, "Strength of Materials" captures the syllabus of most major Indian Universities and competitive examinations as well. The book discusses everything under solids and its mechanics (such as providing different aspects of stresses) and provides the reader with a deeper interest

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in the subject – all within aptly formed chapters. It also contains typical examples (useful for students appearing in competitive examinations in particular and other students in general), highlights, objective type questions and a large number of unsolved examples for a complete grasp of the subject.

Theory of Structures

Surveying Vol II, 4e

Advanced Surveying: Total Station, Gis and Remote Sensing

Mechanics of Materials

This text on building materials includes discussion of structural clay products,

rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

Modern Surveying is unimaginable without the use of electronic equipment and information technology. Surveying with conventional systems has been completely replaced with advanced automated systems. Total Station, Global Positioning System (GPS), Remote Sensing and Geographical Information

System (GIS) have all become an inextricable part of surveying. Advanced Surveying: Total Station, GIS and Remote Sensing provides a thorough working knowledge of these technologies.

Surveying and Levelling

Comprehensive Rcc.Designs

Comprehensive Design of Steel Structures

R.C.C. Designs (Reinforced Concrete Structures)

"It covers all basic methods of surveying

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and levelling, applications of surveying and levelling, calculation of areas and volumes of earth work involved in the field work. Minor instruments used in the field are also explained."--Publisher's description.

This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is

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Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough

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Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.

Soil Mechanics and Foundations

Reinforced Concrete Structures Vol. I

Surveying Problem Solution With Theory And Objective Type Questions

The Book Provides A Lucid And Step-By-Step Treatment Of The Various Principles And Methods For Solving Problems In Land Surveying. Each Chapter Starts With Basic Concepts And Definitions, Then Solution Of Typical Field Problems And Ends

With Objective Type Questions. The Book Explains Errors In Survey Measurements And Their Propagation. Survey Measurements Are Detailed Next. These Include Horizontal And Vertical Distance, Slope, Elevation, Angle, And Direction. Measurement Using Stadia Tacheometry And Edm Are Then Highlighted, Followed By Various Types Of Levelling Problems. Traversing Is Then Explained, Followed By A Detailed Discussion On Adjustment Of Survey Observations And Then Triangulation And Trilateration. A Detailed Discussion On Various Types Of Curves And Their Setting Out Is Followed By Calculation Of Areas And Volumes. The Last

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Chapter Includes Point Location And Setting Out Works In Civil Engineering Projects. Suitable Illustrations And Worked Out Examples Are Included Throughout The Book. Selected Practice Problems Are Given At The End Of The Book. The Book Would Serve As An Excellent Text For Degree And Diploma Students Of Civil Engineering. Amie Candidates And Practicing Engineers Would Also Find This Book Extremely Useful.

Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth's surface and utilizing these features in the planning, design and construction of

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works. It is a critical part of any engineering project. Without an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. This fully updated sixth edition of Engineering Surveying covers all the basic principles and practice of the fundamentals such as vertical control, distance, angles and position right through to the most modern technologies. It includes: * An introduction to geodesy to facilitate greater understanding of satellite systems * A fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying * All new

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chapter on the important subject of rigorous estimation of control coordinates * Detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

Surveying and Field Work - II (Hindi Medium)

Textbook of Surveying

Surveying Vol. I

Surveying

□ABOUT THE BOOK: *The basic aim of the seventeenth edition of Surveying, Volume-I, is the same as that of the earlier editions, namely, to present the fundamentals of the subject in a simplified manner and to illustrate the basic concepts in a simple and lucid language so that even a beginner can understand it. A large number of worked examples and figures have been given to illustrate the basic theories. The subject matter has been revised wherever necessary to make some of the basic concepts more clear and understandable. A few new problems and examples have been added. Some of the old figures have been replaced by new ones. Either colored plates of the surveying instruments*

have been added as an appendix. These plates and figures are useful for making the subject matter more illustrative. □OUTSTANDING FEATURES: -E.D.M., Total Station & G.P.S. are included separately -All the text has been explained in a simple, lucid language -SI Units used in the entire book -This book will be useful for Degree/Diploma/A.M.I.E. students and equally useful to the field engineers and surveyors -Number of problems have been solved in details -Subject matter is supported by very good diagrams -Either colored plates of the surveying instruments have been added as an appendix.

□RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS,

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and AMIE Examinations □ **ABOUT THE AUTHOR: Dr. K.R. ARORA B.E. (Civil), M.E. (Hons), Ph.D (I.I.T. Delhi) Professor and former Head, Department of Civil Engineering, Engineering College, Kota (Rajasthan).** □ **BOOK DETAILS: ISBN : 978-81-89401-23-8 Pages: 690 + 16 Edition:17th, Year -2019 Size(cms): L-24.2 B-18.2 H-2.8**
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I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.

SMTS-II Theory of Structures

Building Construction

FUNDAMENTALS OF SURVEYING

Surveying (Volume - 1)