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?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 Some of the old figures have been replaced by new ones.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, 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 ?PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies The Book Conforms To The Modern Concept Of Treating The Diversified Problems Of Water Resources Engineering Through A Multi-Disciplinary And Integrated Approach And Incorporating It In The Educational Curriculum For Effective And Comprehensive Teaching. It Specifically Deals With The Principal Segments Of Water Resources Engineering Which Include Hydrology, Ground Water, Water Management For Irrigation And Power, Flood Control, Engineering Economy In Water Resources Projects For Flood Control, Project Planning In Water Resources, Concrete And Earth Dams.Because Of The Multi-Disciplinary Nature Of Water Resources Engineering Problems, It Is Seldom Possible To Do Full Justice To The Subjects Unless The Teaching Imparts Background Knowledge Of The Allied Disciplines, Viz., Probability And Statistics, Engineering Economics And Systems Engineering. The Book Represents An Attempt To Fulfill This Primal Need.The Book Would Primarily Benefit Students Doing Graduation In Civil Engineering And Those Appearing In Section-B Examination Of The Institution Of Engineers (India). Besides, Some Of The Topics Covered In The Book Would Also Be Of Much Use By Post-Graduate Students In Water Resources Engineering. 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. 2022 Pictorial Booklet Vol.-3 Civil Engineering Concrete Technology Useful for : SSC JE, UPPCL, UPRVUNL JE/AE, UPPSC AE, UPSSSC JE, UP JN, Assam PSC AE/JE, BPSC/BSPHCL JE, CHHATTISGARH PSC/CGPEB AE/JE, DSSSB JE, DDA JE, ESE, ESIC, GUJARAT/GETCO/GSSSB/GMC/GSECL/MGCVCL/BMC/PGVCL, HPSSC, HARYANA PSC/ HSSC, ISRO TA, JAMMU & KASHMIR SSB, JHARKHAND PSC, KARNATAKA PSC/ KPTCL/KPCL/BMRCL/MESCOM/HESCOM, KERALA PSC AE/JE, DMRC/NMRC/LMRC/ JMRC JE/AM, MAHARASHTRA JE, MIZORAM JE/AE, MP PEB, NAGALAND PSC, NCL OVERSEER/SERVEYOR, NLC GET, OPSC AEE, OSSC JE, PGCIL Diploma Trainee, PUNJAB PSC JE/SDE/SDO, RSMSSB JEn, RPSC AE, RRB JE, DFCCIL JE, TELANGANA PSC AEE/AE, TAMIL NADU PSC AE, UTTRAKHAND PSC/UKSSSC/UJVNL/PTCUL/UPCL AE/JE, WEST BENGAL PSC/SUB ASSISTANT ENGINEER/ JE/KMC SAE, OTHER STATE PSC JE/PSU JE One-volume library of instant geotechnical and foundation data Now for the first time ever, geotechnical, foundation, and civil engineers...geologists...architects, planners, and construction managers can quickly find information they must refer to every working day, in one compact source. Edited by Robert W. Day, the time -and effort-saving Geotechnical Engineer's Portable Handbook gives you field exploration guidelines and lab procedures. You'll find soil and rock classification, basic phase relationships, and all the tables and charts you need for stress distribution, pavement, and pipeline design. You also get abundant information on all types of geotechnical analyses, including settlement, bearing capacity, expansive soil, slope stability - plus coverage of retaining walls and building foundations. Other construction-related topics covered include grading, instrumentation, excavation, underpinning, groundwater control and more. 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 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 theory and design of slabs 44FOUNDATIONS Part IV: Prestressed concrete and Miscellaneous Topics 45.Prestressed concrete 46.Shrinkage and creep 47.Form-Work 48.Tests for cement and concrete

**ABOUT THE BOOK:** There are number of books available on the Subject of Water Supply Engineering, but it is observed that each of these books is lacking in one respect or the other. Thus none of the books that are available on the subject is complete in all respects. This has prompted the author to bring out a book on this subject. Alike author's earlier two books namely "Hydraulics and Fluid Mechanics" and "Irrigation Water Resources and Water Power Engineering", this book entitled "Water Supply Engineering" is also a complete text book on the subject. The various topics have been explained in simple language. It contains detailed information based on the latest Indian Standards. The text has been supplemented by a large number of solved illustrative examples and equally large number of problems. In the selection of the solved as well as unsolved examples special care has been taken to include those examples which have appeared at the examinations of the various Universities as well as AMIE, Combined Engineering Services Examinations and other Competitive Examinations. The book has been made self-contained and therefore it will be useful for the students appearing at the examination of various Universities as well as the various competitive examinations. It is hoped that this Single Book will cover the need of the students of Civil Engineering studying this subject at the undergraduate level.

**OUTSTANDING FEATURES:** -Water Supply and Treatment prepared by the Central Public Health and Environmental Organisation under the Ministry of Urban Development have been followed. -SI Units used for the entire book. -More than 300 Multiple Choice Questions with Answers are given in Appendix-I. -Subject matter is supported by very good diagrams and Illustrative examples. **RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers. **ABOUT THE AUTHOR:** Dr. P.N. Modi B.E., M.E., Ph.D Former Professor of Civil Engineering, M.R. Engineering College, (Now M.N.I.T), Jaipur Formerly Principal, Kautilya Institute of Technology and Engineering, Jaipur **PUBLISHED BY:** STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 www.standardbookhouse.in A venture of Rajsons Group of Companies Engineering has been an aspect of life since the beginnings of human existence. The earliest practice of civil engineering may have commenced between 4000 and 2000 BC in ancient Egypt, the Indus Valley civilization, and Mesopotamia (ancient Iraq) when humans started to abandon a nomadic existence, creating a need for the construction of shelter. During this time, transportation became increasingly important leading to the development of the wheel and sailing. Civil engineering is the application of physical and scientific principles for solving the problems of society, and its history is intricately linked to advances in the understanding of physics and mathematics throughout history. Because civil engineering is a broad profession, including several specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environmental science, mechanics, project management, and other fields. Throughout ancient and medieval history most architectural design and construction was carried out by artisans, such as stonemasons and carpenters, rising to the role of master builder. Knowledge was retained in guilds and seldom supplanted by advances. Structures, roads, and infrastructure that existed were repetitive, and increases in scale were incremental. The purpose of this textbook is to present an introduction to the subject of Basics of Civil Engineering of Bachelor of Engineering ( BE) Semester - I. The book contains the syllabus from basics of the subjects going into the intricacies of the subjects. Students are now required to solve minimum Four ( 4 ) Assignments based on the Syllabus. Each topic is followed by Assignment Questions which now forms the compulsory part of internal assessment. All the concepts have been explained with relevant examples and diagrams to make it interesting for the readers. An attempt is made here by the experts of TMC to assist the students by way of providing Study text as per the curriculum with non - commercial considerations. We owe to many websites and their free contents; we would like to specially acknowledge contents of website www. wikipedia. com and various authors whose writings formed the basis for this book. We acknowledge our thanks to them. At the end we would like to say that there is always a room for improvement in whatever we do. We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful. Readers can email their queries and doubts to tmcnagpur@gmail.com. We shall be glad to help you immediately. Dr. Mukul Burghate Author 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 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 Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations. In this book,a chapter on stability of slopes has been included as most of the universities cover this in the first course of Geotechnical Engineering.The contents of this volume are written at a basic level suitable for a first course inGeotechnical Engineering.This book highlights the basic principles of soil mechanics along with applications to many problems in Geotechnical Engineering.The material is covered in a very simple,clear and logical manner.A number of solved and exercise problems have been included in each chapter. An accessible, clear, concise, and contemporary course in geotechnical engineering, this key text: strikes a balance between theory and practical applications for an introductory course in soil mechanics keeps mechanics to a minimum for the students to appreciate the background, assumptions and limitations of the theories discusses implications of the key ideas to provide students with an understanding of the context for their application gives a modern explanation of soil behaviour is presented particularly in soil settlement and soil strength offers substantial on-line resources to support teaching and learning

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