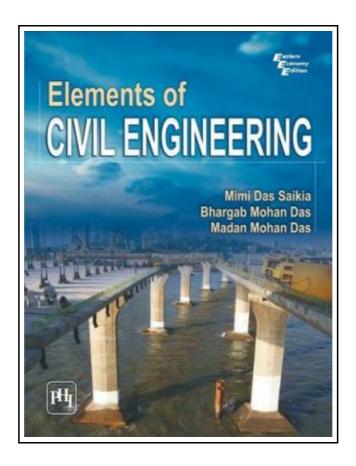
# **Elements of Civil Engineering**



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## **Reviews**

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

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PHI Learning, 2010. Softcover. Condition: New. First edition. Designed as an introductory text for the undergraduate first-year students of all branches of engineering, the present book covers the basics of civil engineering which is required by the students in the beginning of their four-year engineering studies. This textbook covers four parts of civil engineering: Building materials, Building construction and architecture, Surveying, and Highway engineering. All the chapters are arranged in a logical sequence in order to maintain the continuity of the different parts as per the syllabus. Illustrated numerical examples are solved in the chapter wherever necessary. All the worked out examples have relevance to the theory and equations covered in the Chapters end exercises at the end of each chapter help students to absorb concepts, and thus reinforce the understanding of the subject. In a nutshell, this volume contains the complete contents of the course comprising four sub-branches of civil engineering in a single condensed form. CONTENTS: Preface 1. An Introduction to Civil Engineering Part I: BUILDING MATERIALS 2. Building Materials: An Overview 3. Ferrous and Non-Ferrous Metals 4. Alloys 5. Bricks 6. Cement 7. Stones 8. Timber 9. Sand and Lime 10. Paints, Plaster of Paris and Plastics 11. Gypsum, Tiles, Damp and Termite Proof Measure 12. Glass, Thermal Insulation and Acoustics in Building Part II: BUILDING DEVELOPMENT AND CONSTRUCTION 13. Building Construction and Architecture 14. Types of Building Part III: SURVEYING 15. Water Supply, Sanitary and Electrical Works in Building 16. Fire and Earthquake Protection in Building 17. Introduction of Green Buildings 18. Surveying: A Glimpse 19. Linear Measurements and Errors 20. Compass Surveying 21. Traverse Surveying 22. Levelling 23. Modern Surveying Equipments 24. Photogrammetry, Remote Sensing and GPS Part IV: HIGHWAY ENGINEERING 25. Highways and Ideal Cross-Section 26. Pavements and Roads 27. Traffic Control Mechanisms Index...



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