

## Modern Techniques in Repairs and Renovation of Buildings

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### Product Description

The preparation of learning material on "**Modern Techniques in Repairs and Renovation of Building**" is undertaken by Indian Society for Technical Education under the Working Professionals Learning Project. The various topics covered in this materials are routing and sealing, stitching techniques for members failing in flexure, shear, torsion and excessive compression, use of pressure forms for replacement of concrete and small introduction on ultrasonic pulse velocity method and rebound hammer methods for assessing the in-situ quality of concrete and strength respectively. Since there is no authentic information material available at one place, the necessity arises to have this material. The authors feel that this material fulfills the requirement of much needed information and techniques to implement in the field whenever the need arises. It is felt that transfer of technology for implementation will be fulfilled by this learning ma



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### FOREWORD

### PREFACE

**Chapter 1:** Introduction to Distress in Concrete Structures.

**Chapter 2:** General Information Remedial Measures.

**Chapter 3:** Details Methods of Crack Repair.

**Chapter 4:** Details of Repair of Crack by Stitching.

**Chapter 5:** Patching Technique\_ SLAB, FLOOR AND WALLS.

**Chapter 6:** repairing of Active Cracks.

**Chapter 7:** Sealing of Cracks in Walls by Epoxy Injection.

**Chapter 8:** Strengthening Techniques.

**Chapter 9:** Jacketing Techniques.

**Chapter 10:** Replacement of Concrete by Pressure Forms.

**Chapter 11:** Assessment of Quality and Strength by Using Non-Destructive Test (NDT) (Rebound Hammer & UPV).

### REFERENCES

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## About Author

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Dr. M. Lakshmpathy is a graduate in Civil Engineering and post graduate in Structural Engineering and obtained his Ph.D. in the area of ductility of Structural members using fibrous concrete. He served Anna University for 34 years and retired as Head of the department of Civil Engineering, College of Engineering, Guindy (now Anna University), Chennai in 2002. He presented and published number of research papers in National and International Conferences/Seminars and National International journals. He served as Chairman of Tamil Nadu Centre of Indian Concrete Institute, a premier professional body. He served as an expert member nominated by Government of Tamil Nadu for renovation for Madurai Meenakshi Temple, Thirumalai Naicker Mahal in Madurai and Tanjavur Palace and Saraswathi Mahal at Tanjavur. Now he is a Professor in Civil Engineering SRM University, Chennai. He has guided about 6 Ph.D Students, one M.S (by research) student, and has guided numerous B.Tech and M.Tech project works. He is now a member of the United Kingdom India Education Research Initiative (UKIER) through SRM University Chennai.

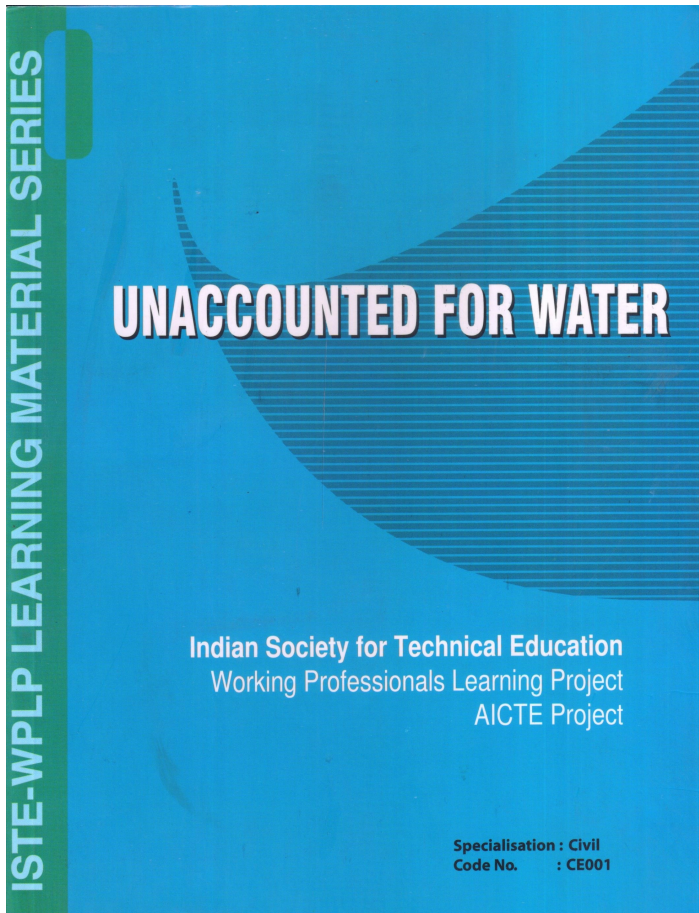
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## Unaccounted for Water

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### Product Description

The book, "Unaccounted For Water", explains the intricacies involved in identifying the various components for UFW, quantifying the same methods to reduce the leakage and non-metered consumption. The book also explains about the measures and the expenditure to contain UFW, which depends on the cost of water. Chapter 4 and 5 deal with the various techniques on water leakage management and chapter 6 highlights the latest instruments used for leakage detection. Chapter 9 spells out the realistic issues of UFW. The learning material has been prepared to train the professionals responsible for water supply and maintenance. Knowledge gained from this book will help the Water Board to maintain the Water Supply System (WSS) more effectively and earn more revenue. The specific objectives of this resource training material are: 1. To use as learning material, for leakage control activities. 2. To use as manual for , trainers and managers involved in leakage control activities. 3. To help the process of training so that more trainees have access to skills dealing with leakage control.



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**References**

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## Mati Kahe Pukar Ke

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