

Prestressed Concrete Design

Praveen Nagarajan

This book is suited for a first course in prestressed concrete design offered to senior undergraduate students in civil engineering and postgraduate students in structural engineering. The book focuses on the behaviour of the prestressed concrete structural elements, with emphasis on clarity and precision in its discussions. Carefully chosen worked examples are included to delineate the design aspects while pointed chapter-end questions enable effortless recapitulation of the subject. This book, while being useful to both the students and teachers, will also serve as an invaluable reference for practising engineers.

Key Features

- ♦ The code provisions in IS: 1343 are critically analyzed and articulated.
- ♦ The concept of strut-and-tie method is introduced and the design of anchorage zones using this approach is elucidated.
- ♦ Analysis and design of special structures such as pipes, water tanks and composite beams are unraveled.
- ♦ A step-by-step approach of problem-solving is adopted.

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