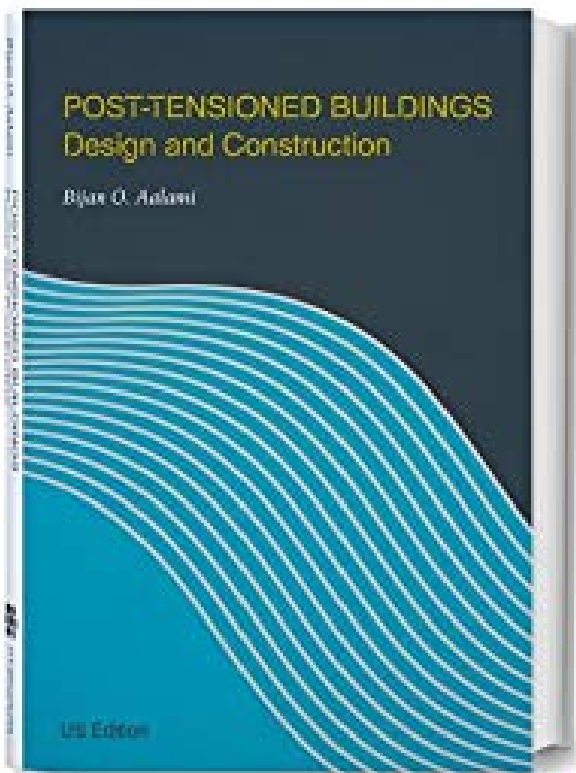


Post-Tensioned Buildings Design and Construction



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US Edition - Must have book for practicing engineers, students, contractors, building officials, plan checkers, and researchers. Drawing upon thirty-two years of worldwide experience, topics in post-tensioning are covered in-depth and taken to the point of practical application, including: 1) US and European Codes for Post-Tensioning Design Unbonded and Systems - Construction Technology; Design Procedures, 2) Post-Tensioned Floors - Step-by-Step calculation, 3) Post-Tensioned Beams - Step-by-Step Calculation, 4) Software Tools; Design Flow Charts and Examples, 5) Stress Losses; Deflections; Cracking; Crack Width, and 6) Application of Finite Elements to Design.

The book assumes a basic knowledge of conventionally reinforced concrete design. Founded on this knowledge, the material presented covers the full range of post-tensioning principles, including the know-how necessary for expedient and efficient designs. The focus of the book is on the science of engineering, while covering in detail the "art" of post-tensioning practice. Emphasis is on the primary objectives of design for "serviceability" and "safety", and how to achieve them, while describing the diversity in local or traditional practice. The material is organized to benefit a wide audience of designers, as well as plan checkers and reviewers, in particular to facilitate the process of project approval. The book comes in two versions: a US Edition, and an International Edition. The US Edition uses the US system of units (lb, in) that is common in US construction, along with the equivalent values in SI units (N, mm).

It covers both ACI/IBC and EC2, which in addition to being mandatory in a large number of European

countries is being used more and more as a basis for other building codes. The International Edition of the book covers the same topics according to both ACI/IBC and EC2, in the SI (N, mm) system of units. In addition, where applicable, it includes the recommendations of TR43.