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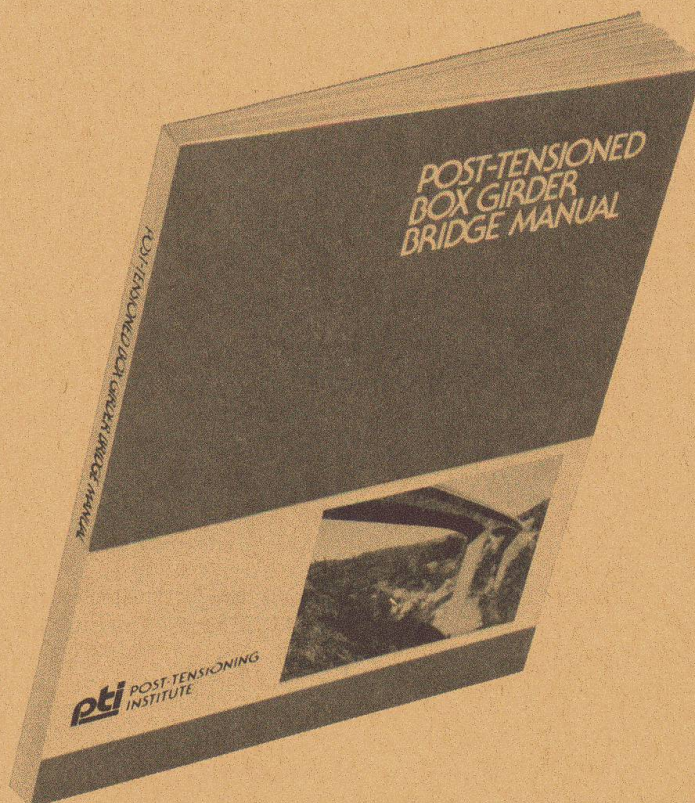
CHAPTER 2—POST-TENSIONED CAST-IN-PLACE BOX GIRDER BRIDGES CONSTRUCTED ON FALSEWORK: Design information on post-tensioned box girder bridges cast on falsework including preliminary design aids, design examples of a single span and a two span continuous structure, calculation of long term losses and secondary moments. Also included are discussions of frame shortening, earthquake details and anchorage stresses.

CHAPTER 3—CONSTRUCTION ON FALSEWORK: Presents construction plan requirements, systems installation and stressing procedures, recommended practice for grouting and example standard specifications for post-tensioned bridge construction on falsework.

CHAPTER 4—TRANSVERSELY POST-TENSIONED DECK SLABS: This chapter provides information on the relative economy and durability of transversely post-tensioned bridge decks along with a design example illustrating the use of influence surfaces for the transverse design of the top slab of a segmental girder.

CHAPTER 5—CAST-IN-PLACE SEGMENTAL CONSTRUCTION: Presents the various aspects of designing and detailing cast-in-place segmental box girders including variable versus constant depth girders, cross-section parameters, diaphragm requirements, longitudinal tendon layout and contract plan detailing requirements. Additionally, illustrated examples of the available construction options are included along with example design and construction specifications.

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