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POST-TENSIONED BOX GIRDER BRIDGE MANUAL

CONTENTS:

CHAPTER 1—INTRODUCTION: An illustrated narrative of recent post-tensioned box girder bridges in the United States.

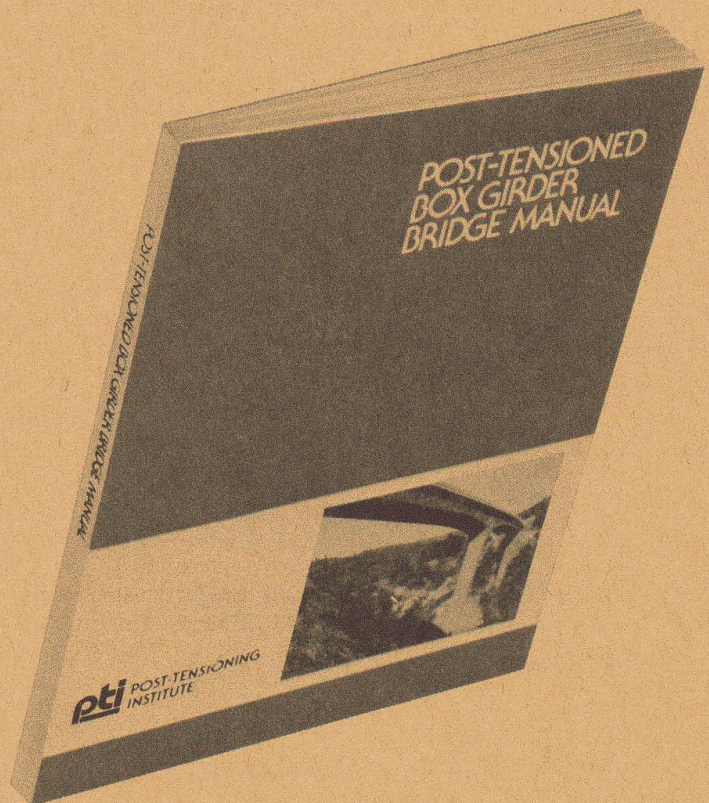
CHAPTER 2—POST-TENSIONED CAST-IN-PLACE BOX GIRDER BRIDGES CONSTRUCTED ON FALSEWORK: Design information on post-tensioned box girder bridges cast on falsework including preliminary design aids, design examples of a single span and a two span continuous structure, calculation of long term losses and secondary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

APPENDIX AND DESIGN AIDS: Includes moment coefficient tables for computing secondary moments in continuous structures and material properties.



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