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Prestressed concrete structures dr. amlan k sengupta and prof. devdas menon anchorage slip in a post-tensioned member, when the prestress is transferred to the concrete, the wedges slip through a little distance before they get properly seated in the conical space. Section 9 - prestressed concrete part a general requirements and materials 9.1 application . 9.1.1 general . the specifications of this section are intended for design of prestressed concrete bridge members, mem- bers designed as reinforced concrete, except for a percentage of tensile steel stressed to improve service behav-Design of prestressed concrete beams is based upon two distinct concepts which lead to two design methods known as service load de-sign or working stress design, and ultimate design. in service load design the stresses in the beam are calculated on the basis of theDesign step 5 - design of superstructure prestressed concrete bridge design example task order dtfh61-02-t-63032 5-47 design step 5.6.1.2 stress calculations at transfer table 5.6-1 - stresses at top and bottom of beam at transfer girder stress at transfer location self weight fContinuity and increase the span length of slab-on-girder prestressed concrete bridges. construction issues that should be considered during the concept development and design stage are highlighted. Prestressed concrete structures, providing the user with the essential knowledge and tools to deal with everyday design problems, while encouraging the necessary critical thinking to tackle more complex problems with confidence, prestressed concrete is one of the most reliable, durable, and widely used construction