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Design of Concrete Structures

Many engineers use the structural analysis programs by Dlubal Software to perform the calculations and designs of 2D and 3D reinforced concrete structures such as buildings, slabs, plates, walls, columns, beams, continuous beams, frames, shells, and silos. Structural analysis software RFEM and RSTAB provide the optimal way to calculate and design structures consisting of reinforced concrete.

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HDM Chapter 19 - Reinforced Concrete Box Culverts and Similar Structures. Purpose: The purpose of this chapter is to discuss requirements for designing reinforced concrete culverts and to provide guidance about the information to include in the contract documents, where to present the information, and details for cast-in-place culverts.

Chapter 19

CONTENT: The New York State Prestressed Concrete Construction Manual (PCCM) is a mandatory part of the contract documents for Department of Transportation projects when referred to by the item specification for structural precast, and/or prestressed concrete units. Revision History: 3rd Edition - Revised April 2019 3rd Edition - April 2017 2nd Edition - September 2000

Prestressed Concrete Construction Manual

Design of Reinforced Concrete, 10th Edition by Jack McCormac and Russell Brown, introduces the fundamentals of reinforced concrete design in a clear and comprehensive manner and grounded in the basic principles of mechanics of solids. Students build on their understanding of basic mechanics to learn new concepts such as compressive stress and strain in concrete, while applying current ACI Code.

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