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Chapter 9 Structural Analysis Equations deflection D due to design load plus ponded water can be closely estimated by (9-6) where D_0 is deflection due to design load alone, S beam spacing, and S_{cr} critical beam spacing (Eq. (9-31)). Combined Bending and Axial Load. Concentric Load Addition of a concentric axial load to a beam under loads

Structural Analysis Equations

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Construction Engineering Calculations and Rules of Thumb begins with a brief, but rigorous, introduction to the mathematics behind the equations that is followed by self-contained chapters concerning applications for all aspects of construction engineering. Design examples with step-by-step solutions, along with a generous amount of tables, schematics, and calculations are provided to facilitate more accurate solutions through all phases of a project, from planning, through construction and completion. Includes easy-to-read and understand tables, schematics, and calculations Presents examples with step-by-step calculations in both US and SI metric units Provides users with an illustrated, easy-to-understand approach to equations and calculation methods

Why do some contaminants remain in soils indefinitely? How much of a threat do they pose to human health or the environment? The need for effective and economic site decontamination arises daily. *Geoenvironmental Engineering: Contaminated Soils, Pollutant Fate, and Mitigation* discusses why soils remain contaminated, focusing on the development of the factors, properties, characteristics, and parameters of soils and individual contaminants. Subjects covered include the basic properties of soils affecting accumulation of contaminants, long-term retention of contaminants and their fate, including the development of intermediate products. The author

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emphasizes the factors, interactions, and mechanisms important in the bonding and partitioning process. He provides the groundwork for determining the fate of pollutants in soils and sediments and their mitigation. Geoenvironmental Engineering: Contaminated Soils, Pollutant Fate, and Mitigation focuses on why soils and sediments remain contaminated, not how they became contaminated in the first place. You will understand why specific contaminants remain in soils and sediments, how much of a threat they pose to human health and the environment, and what steps to take for mitigation. With this information you can determine the extent of the contamination of soils and sediments, how long they will remain a threat, and what methods to use for their remediation.

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