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this book addresses the job of civil engineers and explains how some of the world's greatest engineering marvels were built. Students will learn how tunnels such as the English Channel Tunnel are built under water, how dams like the Hoover Dam are built, and the purpose they serve a community and why the Panama Canal was an important improvement to world trade.

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shallow foundations discussions and problem solving is written for civil engineers and all civil engineering students taking courses in soil mechanics and geotechnical engineering it covers the analysis design and application of shallow foundations with a primary focus on the interface between the structural elements and underlying soil topics such as site investigation foundation contact pressure and settlement vertical stresses in soils due to foundation loads settlements and bearing capacity are all fully covered and a chapter is devoted to the structural design of different types of shallow foundations it provides essential data for the design of shallow foundations under normal circumstances considering both the american aci and the european en standard building code requirements with each chapter being a concise discussion of critical and practical aspects applications are highlighted through solving a relatively large number of realistic problems a total of 180 problems all with full solutions consolidate understanding of the fundamental principles and illustrate the design and application of shallow foundations

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here is a comprehensive guide and reference to assist civil engineers preparing for the structural engineer examination it offers 350 pages of text and 70 design problems with complete step by step solutions topics covered materials for reinforced concrete limit state principles flexure of reinforced concrete beams shear and torsion of concrete beams bond and anchorage design of reinforced concrete columns design of reinforced concrete slabs and footings retaining walls and piled foundations an index is provided

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