



Construction Management and Design of Industrial Concrete and Steel Structures

Mohamed A. El-Reedy

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The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth exploration of both these aspects and the resulting challenges, **Construction Management and Design of Industrial Concrete and Steel Structures** provides a practical guide to the design of reinforced concrete and steel structures and foundations in industrial projects.

Renowned expert Mohamed A. El-Reedy covers the entire industrial construction process, from project management to design and construction to sign off and providing a maintenance plan. Highlighting the differences between industrial construction and real estate or residential construction, he examines every phase and every role, from managerial to technical. He includes cases from industrial projects and covers the international technical practices, codes, and standards used in steel or concrete onshore or offshore projects. The book provides up-to-date methodologies in structure analysis, geotechnical studies, and international special codes and standards for industrial structures such as tanks, foundation under towers, machines, and special structures in industrial projects. It also examines the safety and economic benefits of developing a structure integrity management system.

When a project has a budget that seems as huge at the structure itself, the client, engineering firm, and contractor must work together to achieve success. Discussing the interface between these three main partners, this book outlines strategies for checking the design and controlling a project in all its phases.



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