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Structural systems, Structural design, Structures, Silos, Storage facilities, Tanks (containers), Bulk storage containers, Hoppers, Loading, Mathematical calculations, Pressure, Flow, Liquids, Solids, Particulate materials, Physical properties of materials, Explosions, Dust explosions, Loading (materials handling) "This book presents the most relevant practical methods for the analysis and design of circular concrete tanks. The methods can also be used for silos, pipes or any circular shells subjected to arbitrary axially-symmetrical loading, and also deal with the more general problem of beam on elastic foundation. A new chapter is presented with guidance on the design of construction of circular tanks. Examples of satisfactory designs are presented; including post-tensioned concrete walls, footings, floors and roofs and liquid-tight connections between these components"-- With increasing world-wide investment in the construction of water treatment plants, sewage works, water storage systems and oil and petrochemical complexes, the practical value of simplified design methods for concrete tanks is obvious. The second edition of this best-selling book presents solutions to many of the practical problems involved in the analysis and design of tanks. It grew, in part, from the author's work as a member of the American Concrete Institute technical committee on circular pre-stressed structures. Containing six new chapters, it will be an immediately productive design aid in any civil engineering design office. Part 1 provides an analysis of circular storage tanks examining design, methods of analysis and potential problems. Part 2 contains practical design tables. Previous papers have described wind tunnel measurements on isolated and grouped storage bins. silos and tanks of circular cross-section. In this paper, distributions of fluctuating and peak pressures on the walls of both isolated and grouped silos are described. They were generated using the techniques of eigenvector analysis of the covariance matrix, and "coincident peak" sampling. Following previous work in which point pressure measurements on isolated low aspect ratio circular structures such as storage bins, silos, and tanks were described, this report describes measurements of wind loads on silos arranged in an in-line group of five. As well as point pressures, area-averaged pressures on wall panels of finite area were carried out using the pneumatic averaging technique. At small spacings between silos, the region of positive pressure on the windward side spans a larger angular sector of the circumference than that for an isolated silo. For wind directions near normal to the line of the silos, high negative mean pressures and high r.m.s. pressures occur near the point of shortest distance to the adjacent silos. Bringing together the leading European expertise in behaviour and design of silos, this important new book is an essential reference source for all concerned with current problems and developments in silo technology. Silos are used in an enormous range of industries and the handling characteristics of many industrial materials require different approaches for successful, economical installations. For the first time, the many approaches taken by specialists in different fields are brought together in a unified way so that common problems can be addressed. This book is the result of a four-year European project - Concerted Action - Silos - funded under the Brite Euram programme which has involved over 100 expert engineers and researchers from all over Europe, in seven working groups. Construction engineering works, Design, Fluid receivers, Mathematical calculations, Silos, Specification (approval), Structural systems, Symbols, Pressure vessels, Buildings, Tanks (containers), Bulk storage containers, Loading, Flow, Hoppers, Particulate materials, Bulk density, Density measurement, Shear testing, Compression testing, Friction tests, Testing conditions, Earthquake-resistant design A Design Aid for Structural Engineers Circular Storage Tanks and Silos, Third Edition effectively explains and demonstrates the concepts needed in the analysis and design of circular tanks. Tanks have to sustain high-quality serviceability over a long lifespan. This text covers computing the stresses in service in several chapters. It considers thermal stresses and the time-dependent stresses produced by creep and shrinkage of concrete and relaxation of prestressed steel. It also examines the effects of cracking and the means for its control. This text is universally applicable; no specific system of units is used in most solved examples. However, it is advantageous to use actual dimensions and forces on the structure in a small number of examples. These problems are set in SI units and Imperial units; the answers and the graphs related to these examples are given in the two systems. What's New in This Edition: Presents a new chapter on recommended practice for design and construction of concrete water tanks and liquefied natural gas tanks Includes a companion Website providing computer programs CTW and SOR Provides material on CTW (Cylindrical Tank Walls); with simple input, it performs analysis for load combinations anticipated in the design of cylindrical walls with or without prestressing Contains the finite-element computer program SOR (Shells of Revolution); it performs analysis for design of axisymmetrical shells of general shapes This guide is an authoritative resource for the analysis and design of circular storage tanks and silos.

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