Design And Construction Of Silos And Bunkers

ACI 313-91
Design and Construction of Bunkers and Silos
Standard Practice for Design and Construction of Concrete Silos and Stacking Tubes for Storing Granular Material
A Comparison of Various Types of Silo with Notes Pertaining to Their Design and Construction
Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storing Granular Materials
Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storage of Granular Materials (ACI 313-77) (revised 1983) and Commentary (ACI 313R-77).
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DALE LOGAN

ACI 313-91 CRC Press
This book offers a new calculation procedure of the structural behavior of grouped layout of silos, easy to use and with satisfactory responses. Groups of reinforced concrete silos are structures commonly used in the food industry, where it is usually necessary to separate the storage of different types and sources of grain. The grouped layout of silos has numerous benefits when compared with single-cell silos in which the emphasis is on creating further space for silage, normally referred to as interstice – a space formed between the edges of the group's cells. This economic benefit, on the other hand, raises a structural problem for the designer of this type of building, which is to assess the magnitude of bending moments and hoop forces due to the structural continuity of the walls in the interstice region of the cells. Bending moments assume extreme values exactly when the interstice is loaded and the other cells in the group are empty. To develop the formulation of the proposed analysis models, a parametric study was carried out that allowed the adequate consideration of the variables involved. The idea is to help professionals, engineers, industrials and academics involved in this advanced interdisciplinary field as a comprehensive guide for courses offered at different levels of learning (undergraduate and postgraduate).
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This comprehensive and unique work

considers the various aspects involved in the behaviour of bulk storage structures. It is the accumulation of over 30 years of study, experiments and field measurements by the author, covering design, examination and evaluation of bulk storage structures. The subjects treated in this volume range from design, through operational behaviour, to failure and its prevention. The following areas are considered: theories of stresses and strains in particulate materials; material testing and evaluation for the prediction of a structure's loads and behaviour; methods for calculating loads and safety assessment; comparisons of field measurements with theoretical predictions; effects of non-ideal behaviour of stored materials; use of silo-related theories in geotechnical applications; measuring strains, deformations and pressure in operating structures; and case histories of silo problems, their causes and solutions. This title is highly valuable in informing professional engineers and researchers working in the fields of design, examination and evaluation of silos and bulk storage structures.
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A Comparison of Various Types of Silo with Notes Pertaining to Their Design and Construction Springer
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.
Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storing Granular Materials American Concrete Institute
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.
Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storage of Granular Materials (ACI 313-77) (revised 1983) and Commentary (ACI 313R-77). American Concrete Institute
This collection of papers, written by friends and colleagues of Josef Singer, presents a comprehensive and timely review of the theoretical mechanics of thin shell-structures. Topics of great current interest such as the buckling of composite plates and shells, the plastic buckling of thin-walled structures and the optimum design of buckling sensitive curved composite panels are examined by experts, using a great diversity of approaches, whereby theoretical predictions are compared with experimental results whenever possible. Other topics reviewed include the buckling and post-buckling behaviour of imperfect shells under different external static or dynamic loads and a variety of boundary conditions. Papers dealing with the vibration and the dynamic response of thin elastic bodies are also presented. A strong emphasis is made on the practical applications aspect in the theories presented. Thus engineers, research workers and students who are involved with the design and analysis of shell structures made of different materials, and subjected to various static and dynamic loads will find this volume an invaluable source of reference.
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