Design Principles and Analysis of Thin Concrete Shells, Domes and Folders (Hardback)

By Iakov Iskhakov, Yuri Ribakov

Taylor Francis Inc, United States, 2015. Hardback. Condition: New. Language: English . Brand New Book. One of the main goals of a good and effective structural design is to decrease, as far as possible, the self-weight of structures, because they must carry the service load. This is especially important for reinforced concrete (RC) structures, as the self-weight of the material is substantial. For RC structures it is furthermore important that the whole structure or most of the structural elements are under compression with small eccentricities. Continuous spatial concrete structures satisfy the above-mentioned requirements. It is shown in this book that a span of a spatial structure is practically independent of its thickness and is a function of its geometry. It is also important to define which structure can be called a spatial one. Such a definition is given in the book and based on this definition, five types of spatial concrete structures were selected: translation shells with positive Gaussian curvature, long convex cylindrical shells, hyperbolic paraboloid shells, domes, and long folders. To demonstrate the complex research, results of experimental, analytical, and numerical evaluation of a real RC dome are presented and discussed. The book is suitable for structural engineers, students,...

READ ONLINE
[6.99 MB]

Reviews

I actually started reading this article publication. We have read and that i am confident that i am going to planning to study yet again once again later on. You can expect to like how the author compose this pdf.
-- *Zoe Hilpert*

The very best pdf i at any time read through. This is for all those who statte there had not been a worthy of studying. You wont sense monotony at whenever you want of your own time (that's what catalogs are for concerning when you request me).
-- *Fabian Kuhlman II*

DMCA Notice | Terms