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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

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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

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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

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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

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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

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materials, and  
subjected to  
various static  
and dynamic  
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designing of Silos  
and their  
construction  
techniques. This  
Book is basically  
limited to Concrete  
and steel Silos,  
though the  
approach and  
principles in  
general are  
applicable for

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other Silos also. Very few books were available on Silos. Books by Manning, Ketchum and, Faber and Mead were useful for their pressures calculations and structural design. International Codes of Practice

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on silo Design, like  
DIN (1964) and  
ACI (1977) were  
introduced  
subsequently. But  
they were  
satisfactory when  
silo sizes were  
small; about 12m  
dia. maximum.

These were based  
on semi-empirical

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approaches for pressures calculation. Due to this limitation, structural and functional failures of Silos happened sporadically. During 1985, Safarian and Haris published their excellent

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voluminous  
treatise on Silos  
design and  
construction. Their  
book includes  
provisions of  
International codes  
of Practice at that  
time from  
Germany, USA,  
France, Soviet  
Union and

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suggestions from many international practicing Design Engineers.

Subsequently, some of the International codes were revised based on the latest findings of research and practical

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observation results. With the introduction of the Euro Code on Silos, other Codes were revised. This book gives recommendations of these codes; viz. DIN, Euro and others codes & highlights the

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limitations of these codes. The main uncertain issue had been the computation of material pressures on silo walls and their bottom structures. Starting with historical developments of Silos since 1770s,



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this Book covers up to their causes of failures and the remedial measures. Silo strengthening measures are also mentioned.

Worked out examples of material pressures computations as

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per the current Codes of practice are included to help proper understanding of the principles of calculation of pressures and structural design. It is expected that this Book would be very useful as a

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guide to young  
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interested in the  
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structures and will  
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practical  
suggestions are  
included on both

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design and construction aspects of the Silos. This would also be of immense help as course material for 'Special Structures' being conducted in educational institutes.

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