

Shell Architecture

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shell structures are widely used in the fields of civil mechanical architectural aeronautical and marine engineering shell technology has been enhanced by the development of new materials and prefabrication schemes despite the mechanical advantages and aesthetic value offered by shell structures many engineers and architects are relatively unacquainted with shell behaviour and design this book familiarizes the engineering and architectural student as well as the practicing engineer and architect with the behaviour and design aspects of shell structures three aspects are presented the physical behaviour the structural analysis and the design of shells in a simple integrated and yet concise fashion thus the book contains three major aspects of shell engineering 1 physical understanding of shell behaviour 2 use of applied shell theories and 3 development of design methodologies together with shell design examples the theoretical tools required for rational analysis of shells are kept at a modest level to give a sound grasp of the fundamentals of shell behaviour and at the same time an understanding of the related theory allowing it to be applied to actual design problems to achieve a physical understanding of complex shell behaviour quantitative presentations are supplemented by qualitative discussions so that the reader can grasp the physical feeling of shell behaviour a number of analysis and detailed design examples are also worked out in various chapters making the book a useful reference manual this book can be used as a textbook and or a

reference book in undergraduate as well as graduate university courses in the fields of civil mechanical architectural aeronautical and materials engineering it can also be used as a reference and design analysis manual for the practicing engineers and architects the text is supplemented by a number of appendices containing tables of shell analysis and design charts and tables

shell structures is a term defining concrete or steel vaults of present century architecture that derive from the masonry vaults and domes of the past

this book describes the design detailing and structural engineering of filigree double curved and long span glazed shells of minimal weight and ingenious details innovative clear and understandable geometric principles for the design of double curved shell structures are explained in a practical manner the principles are simple to apply with the use of functions now available in most cad programs the author demonstrates how floating and homogeneous structures can be created on these free forms particularly grid shells of planar rectangles these are especially suitable for glazing with flat panes and offer structural economical and architectural advantages examples are provided to illustrate in simple ways the latest methods of form finding calculation and holistic optimisation through the complex interaction of structure form and topology numerous examples built all over the world from 1989 to 2014 offer orientation and assistance in the design of such double curved shells essential design parameters many details and node connections of constructed projects are presented and evaluated these structures have been built all over the world in close partnership with renowned architects

the masters of concrete shells concrete shell construction started to become popular in the mid 20th century technically advanced designs with conspicuous expressiveness began to appear all over the world with three typical protagonists félix candela 1910 1997 heinz isler 1926 2009 and ulrich müther 1934 2007 the book examines this construction method their work primarily in mexico switzerland and the former gdr was carried out under very different political economic social and cultural conditions the authors analyze the buildings and projects against the background of developments in architecture and engineering at that time the focus is on mutual influence shared aspects and differences in the design processes the structural design and the execution in addition the book examines how the work was received and today s application of the building method learning from félix candela heinz isler and ulrich müther and their historic shell construction buildings unknown material from the drawing archives in english with summaries in german and spanish

this book provides engineering tools for the design of shells against buckling a simplified approach is given in a number of cases which are not addressed in current design codes

the mathematical description of the properties of a shell is much more elaborate than those of beam and plate structures therefore many engineers and architects are unacquainted with aspects of shell behaviour and design and are not familiar with sufficiently reliable shell theories for the different shell types as derived in the middle of the 20th century rather than contributing to theory development this university textbook focuses on architectural and civil engineering schools of course practising professionals will profit from it as well the book deals with thin elastic shells in particular with cylindrical conical and spherical types and with elliptic and hyperbolic paraboloids the focus is on roofs chimneys pressure vessels and storage tanks special attention is paid to edge bending disturbance zones which is indispensable knowledge in fe meshing a substantial part of the book results from research efforts in the mid 20th

century at delft university of technology as such it is a valuable addition to the body of shell research literature of continuing importance this work can be used for university courses it also shows professionals how to perform manual calculations of the main force flow in shell structures and provides guidance for structural engineers estimating stresses and deformations

the photographs and detailed scale drawings of the structures are accompanied by in depth descriptions giving a full account of the construction method and the characteristics of the materials

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