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# Analysis and Optimization of Prismatic and Axisymmetric Shell Structures

Theory, Practice and Software



Springer

# Analysis And Optimization Of Prismatic And Axisymmetric Shell Structures

**N Noddings**



## **Analysis And Optimization Of Prismatic And Axisymmetric Shell Structures:**

*Analysis and Optimization of Prismatic and Axisymmetric Shell Structures* Ernest Hinton, Johann Sienz, Mustafa Özakca, 2012-12-06 Shell type structures can be found almost everywhere They appear in natural forms but also as man made load bearing components in diverse engineering systems Mankind has struggled to replicate nature s optimization of such structures but using modern computational tools it is now possible to analyse design and optimise them systematically Analysis and Optimization of Prismatic and Axisymmetric Shell Structures features comprehensive coverage of the background theory of shell structures development and implementation of reliable creative and efficient computational tools for static and free vibration analysis and structural optimization of variable thickness shells and folded plate structures integrated computer aided curve and surface modelling tools and automatic mesh generation structural analysis sensitivity analysis and mathematical programming methods well documented downloadable Fortran software for these techniques using finite element and finite strip simulations which can be readily adapted by the reader for the solution of practical problems or for use within a teaching or research environment Written by leading experts in finite element and finite strip methods Analysis and Optimization of Prismatic and Axisymmetric Shell Structures will be of great interest to researchers in structural mechanics and in automotive aerospace and civil engineering as well as to designers from all fields using shell structures for their strength per unit mass advantages **Applied Mechanics Reviews** ,1993 **AIAA Journal** American Institute of Aeronautics and Astronautics,2004 **Bulletin of the International Association for Shell and Spatial Structures** International Association for Shell and Spatial Structures,1992 **American Book Publishing Record** ,2001

*Identification, Control and Optimisation of Engineering Structures* Guido Roeck, B. H. V. Topping, 2000 Contains a selection of papers that were presented at The Fifth International Conference on Computational Structures Technology and The Second International Conference on Engineering Computational Technology which were held in Leuven Belgium from 6 8 September 2000 International Aerospace Abstracts ,1999 Peterson's Graduate Programs in Engineering and Applied Sciences, 1996 Peterson's Guides, Peterson's Guides Staff, Peterson's, 1995-12-10 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master s doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more Interest in these fields has never been higher And this is the source to the 3 400 programs currently available from bioengineering and computer science to construction management **Peterson's Guide**

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 documents it became evident that there was a need for a commercially available comprehensive bibliography in this area A  
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