

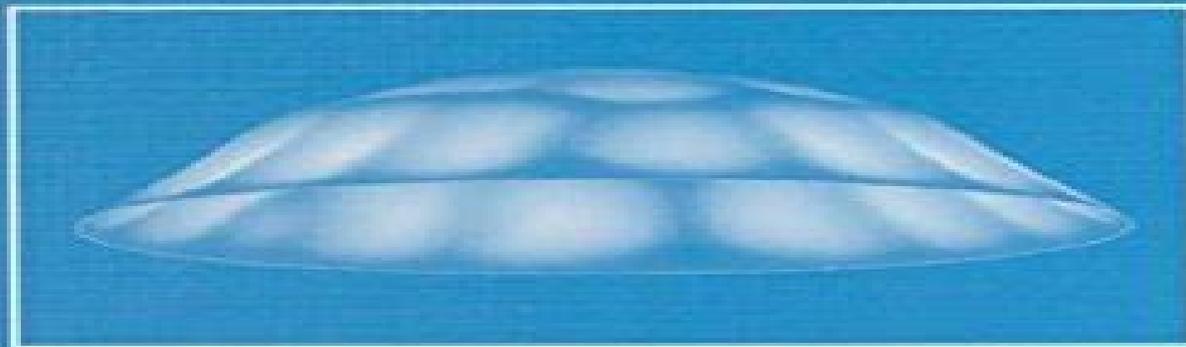
Studies in Applied Mechanics

# Stability of Nonlinear Shells

# 48

On the example of spherical shells

Dov Shilkrut



Elsevier

# Stability Of Nonlinear Shells On The Example Of Spherical Shells

**M Carnoy**



## **Stability Of Nonlinear Shells On The Example Of Spherical Shells:**

**Stability of Nonlinear Shells** D. Shilkrut, E. Riks, 2002-06-18 Stability of NonLinear Shells is a compilation of the author's work on analyzing the behaviour of spherical caps and related shell structures under various axisymmetric load systems Differing from other texts on shells of revolution it is one of the first attempts to deal with effects of multi parameter load systems This extension leads to the discovery of some new hitherto unknown phenomena exhibited by these structures In addition the book presents a novel way to characterize properties of solutions of the governing equations for spherical caps a classification anchored in a theory called reciprocal systems The author has introduced a deformation map a projection of multi dimensional solutions to two dimensional graphs to enable analysts to gain insight into the physical meaning of the results obtained Numerous examples illustrate the concepts introduced This book also comes to grips with many misconceptions existing in engineering literature about the question of the stability of solutions *Stability of Nonlinear Shells* Dov Shilkrut, Eduard Riks, 2002 Stability of NonLinear Shells is a compilation of the author's work on analyzing the behaviour of spherical caps and related shell structures under various axisymmetric load systems Differing from other texts on shells of revolution it is one of the first attempts to deal with effects of multi parameter load systems This extension leads to the discovery of some new hitherto unknown phenomena exhibited by these structures In addition the book presents a novel way to characterize properties of solutions of the governing equations for spherical caps a classification anchored in a theory called reciprocal systems The author has introduced a deformation map a projection of multi dimensional solutions to two dimensional graphs to enable analysts to gain insight into the physical meaning of the results obtained Numerous examples illustrate the concepts introduced This book also comes to grips with many misconceptions existing in engineering literature about the question of the stability of solutions Provided by publisher *Applied Mechanics Reviews*, 1968

**Thin Plates and Shells** Eduard Ventsel, Theodor Krauthammer, 2001-08-24 Presenting recent principles of thin plate and shell theories this book emphasizes novel analytical and numerical methods for solving linear and nonlinear plate and shell dilemmas new theories for the design and analysis of thin plate shell structures and real world numerical solutions mechanics and plate and shell models for engineering applications It includes computer processes for finite difference finite element boundary element and boundary collocation methods as well as other variational and numerical methods It also contains end of chapter examples and problem solution sets a catalog of solutions for cylindrical and spherical shells and tables of the most commonly used plates and shells **10 Years of Progress in Shell and Spatial Structures: Shells**, 1989 *Finite Rotations in Structural Mechanics* Wojciech Pietraszkiewicz, 1986 The deformation near a material particle of the classical continuum is produced by successive superposition of a rigid body translation a pure stretch along principal directions of strain and a rigid body rotation of those directions The rotational part of deformation is particularly important in the non linear analysis of thin walled solid structures such as beams thin walled bars plates and shells since in this case

finite rotations may appear even if the strains are infinite small It seems that the research concerning the application of finite rotations is carried out independently in different fields of structural mechanics Theoretical and numerical methods developed and the results obtained for a particular type of the structure or for a particular material behaviour not always are used to analyse similar problems for other types of structures or for another material behaviour Since the research in this field had been growing rapidly it was decided to organize an informal international meeting under the auspices of the European Mechanics Committee entitled Euromech Colloquium 197 Finite Rotations in Structural Mechanics The meeting was held on 17-20 September 1985 in Jablonna a small suburban area of Warsaw

*The British National Bibliography* Arthur James Wells, 2002    Science Abstracts, 1992    **Buckling of Thin-walled Doubly Curved Shells - NASA Space Vehicle Design Criteria /structures/**, 1969    International Aerospace Abstracts, 1977    *Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews*, 1988    *Metals Abstracts*, 1996    **Report of the Research and Other Activities** California Institute of Technology. Division of Engineering and Applied Science, 1961    **Mathematical Reviews**, 2000

*Numerical Solution of Nonlinear Structural Problems* Richard F. Hartung, 1973    Government Reports Announcements & Index, 1972    **Bibliography of Scientific and Industrial Reports**, 1971    U.S. Government Research & Development Reports, 1971    Journal of the Engineering Mechanics Division American Society of Civil Engineers. Engineering Mechanics Division, 1974    **Dissertation Abstracts International**, 2006

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