



Advances in Shell Buckling: Theory and Experiments*

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Received September 10, 2014

In a recent feature article in this journal, coauthored by Gert van der Heijden, I described the static-dynamic analogy and its role in understanding the localized post-buckling of shell-like structures, looking exclusively at integrable systems. We showed the true significance of the Maxwell energy criterion load in predicting the sudden onset of “shock sensitivity” to lateral disturbances. The present paper extends the survey to cover nonintegrable systems, such as thin compressed shells. These exhibit spatial chaos, generating a multiplicity of localized paths (and escape routes) with complex snaking and laddering phenomena. The final theoretical contribution shows how these concepts relate to the response and energy barriers of an axially compressed cylindrical shell.

After surveying NASA’s current shell-testing programme, a new nondestructive technique is proposed to estimate the “shock sensitivity” of a laboratory specimen that is in a compressed metastable state before buckling. A probe is used to measure the nonlinear load-deflection characteristic under a rigidly applied lateral displacement. Sensing the passive resisting force, it can be plotted in real time against the displacement, displaying an equilibrium path along which the force rises to a maximum and then decreases to zero: having reached the free state of the shell that forms a mountain-pass in the potential energy. The area under this graph gives the energy barrier against lateral shocks. The test is repeated at different levels of the overall compression. If a symmetry-breaking bifurcation is encountered on the path, computer simulations show how this can be suppressed by a controlled secondary probe tuned to deliver zero force on the shell.

Keywords: Maxwell load; shell buckling theory; shell buckling experiments; shock sensitivity; localization; imperfection sensitivity; stability; rods.

1. Introduction

Early in the 20th century the pioneering use of thin metal shells as load-carrying components in aircraft and rockets stimulated engineers to look in detail at two well-defined archetypal problems of elastic buckling. These were the complete spherical shell subjected to uniform external pressure, and the cylindrical shell subjected to uniform axial compression. In careful laboratory tests, both of these were found to be collapsing violently at about

one quarter of the classical buckling loads, P_C , predicted by small-deflection linear theory. In response to this discrepancy, von Karman and Tsien [1939, 1941] made approximate Rayleigh–Ritz analyses to demonstrate that, for both problems, there exists a very unstable, subcritical post-buckling path of periodic equilibrium states. This falls rapidly from P_C and eventually stabilizes at a fold (limit point) at what they termed the *lower buckling load*, P_L . They suggested that this load might be a useful

*Based on the opening lecture at the IDEAS Workshop, “Investigating Dynamics in Engineering and Applied Science”, celebrating Gábor Stépán’s 60th birthday, July 3–5, 2014, Budapest.

Advances In Shell Buckling Theory And Experiments

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Advances In Shell Buckling Theory And Experiments:

Recent Advances in Experimental Mechanics E.E. Gdoutos, 2007-05-08 This book contains 71 papers presented at the symposium on Recent Advances in Experimental Mechanics which was organized in honor of Professor Isaac M Daniel The symposium took place at Virginia Polytechnic Institute and State University on th June 23 28 2002 in conjunction with the 14 US National Congress of Applied Mechanics The book is a tribute to Isaac Daniel a pioneer of experimental mechanics and composite materials in recognition of his continuous original diversified and outstanding contributions for half a century The book consists of invited papers written by leading experts in the field It contains original contributions concerning the latest developments in experimental mechanics It covers a wide range of subjects including optical methods of stress analysis photoelasticity moir etc composite materials sandwich construction fracture mechanics fatigue and damage nondestructive evaluation dynamic problems fiber optic sensors speckle metrology digital image processing nanotechnology neutron diffraction and synchrotron radiation methods The papers are arranged in the following nine sections Mechanical characterization of material behavior composite materials fracture and fatigue optical methods n destructive evaluation neutron diffraction and synchrotron radiation methods hybrid methods composite structures and structural testing and analysis

Advances in Steel Structures (ICASS '99) Siu-Lai Chan, J.G. Teng, 1999-12-01 These two volumes of proceedings contain 9 invited keynote papers and 126 contributed papers to be presented at the Second International Conference on Advances in Steel Structures held on 15 17 December 1999 in Hong Kong The conference is a sequel to the International Conference on Advances in Steel Structures held in Hong Kong in December 1996 The conference will provide a forum for discussion and dissemination by researchers and designers of recent advances in the analysis behaviour design and construction of steel structures The papers to be presented at the conference cover a wide spectrum of topics and were contributed from over 15 countries around the world They report the current state of the art and point to future directions of structural steel research

Asymptotic Methods in the Buckling Theory of Elastic Shells P. E. Tovstik, Andrei L. Smirnov, Peter Richard Frise, Ard[]shir Guran, 2001 This book contains solutions to the most typical problems of thin elastic shells buckling under conservative loads The linear problems of bifurcation of shell equilibrium are considered using a two dimensional theory of the Kirchhoff Love type The explicit approximate formulas obtained by means of the asymptotic method permit one to estimate the critical loads and find the buckling modes The solutions to some of the buckling problems are obtained for the first time in the form of explicit formulas Special attention is devoted to the study of the shells of negative Gaussian curvature the buckling of which has some specific features The buckling modes localized near the weakest lines or points on the neutral surface are constructed including the buckling modes localized near the weakly supported shell edge The relations between the buckling modes and bending of the neutral surface are analyzed Some of the applied asymptotic methods are standard the others are new and are used for the first time in this book to study thin shell buckling

The solutions obtained in the form of simple approximate formulas complement the numerical results and permit one to clarify the physics of buckling

Thin-shell Structures; Theory, Experiment and Design California Institute of Technology, 1974 The book describes the status of the theoretical and experimental understanding of the mechanics of thin walled shell structures as known in the 1970 s The distinctive feature of this book is in its emphasis on experimental evaluation of the theories and on practical concerns for shell design The book is the edited proceedings of the Symposium on Thin Shell Structures Theory Experiment and Design which was held in Pasadena California from June 29 to 30 1972 Author

Recent Developments in the Theory of Shells Holm Altenbach, Jacek Chróścielewski, Victor A. Eremeyev, Krzysztof Wiśniewski, 2019-09-25 This book commemorates the 80th birthday of Prof W Pietraszkiewicz a prominent specialist in the field of general shell theory Reflecting Prof Pietraszkiewicz s focus the respective papers address a range of current problems in the theory of shells In addition they present other structural mechanics problems involving dimension reduced models Lastly several applications are discussed including material models for such dimension reduced structures

Stability Analysis of Plates and Shells, 1998 **Developments in Theoretical and Applied Mechanics** Grover L. Rogers, S. C. Kranc, E. G. Henneke, Edmund G. Henneke, 1970 **Buckling of Cylindrical Shells with Axisymmetric**

Toroidal Initial Imperfections Clark E. Beck, AIR FORCE FLIGHT DYNAMICS LAB WRIGHT-PATTERSON AFB OHIO., 1973 Some recent advances in thin shell buckling theory which tend to explain the discrepancy between experiment and theory are reviewed The results of a digital computer study to determine the effect of three discrete axisymmetric imperfections on the buckling load of two specific circular cylindrical shells are presented and discussed The shells were 40 inches long with wall thicknesses of 0.02 inch and radii of five and ten inches Initial imperfection amplitudes considered were 0.005, 0.01 and 0.02 inch Autho

Applied Mechanics Reviews, 1996 **International Aerospace Abstracts**, 1997 38th

AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference and Exhibit and AIAA/ASME Adaptive Structures Forum, 1997 **Developments in Pressure Vessel Technology**, 1983 **A Collection of**

Technical Papers American Institute of Aeronautics and Astronautics, 1997 This volume presents proceedings from the 38th AIAA ASME ASCE AHS ASC Structures Structural Dynamics and Materials Conference and AIAA ASME AHS Adaptive Structures Forum

Developments in Analysis and Design Using Finite Element Methods B. Kumar, B. H. V.

Topping, 1999 Contains a selection of papers presented at The Seventh International Conference on Civil and Structural Engineering and The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held concurrently from 13-15 September 1999 at Oxford England

Calculation of the Load Carrying Capacity of Initially Slightly Imperfect Thin Walled Circular Cylindrical Shells of Finite Length K. Y.

Narasimhan, Stanford University. Department of Aeronautics and Astronautics, Nicholas J. Hoff, 1967 The nonlinear partial differential equations of von Karman and Donnell governing the deformations of initially imperfect cylindrical shells are

reduced to a consistent set of ordinary differential equations A numerical procedure is then developed for the solution of these equations together with the associated boundary conditions This method is used to determine the number of waves at buckling as well as the load carrying capacity of imperfect cylindrical shells of finite length subjected to uniform axial compression in the presence of the least amount of restraint along the simply supported boundaries It is found that details of the boundary conditions have little effect on the number of waves into which the shell buckles around the circumference This number is determined essentially by the length to radius and radius to thickness ratios The absence of an edge restraint to circumferential displacements reduces the classical value of the buckling load by a factor of about two as compared to the classical value On the other hand shells with these boundary conditions are less sensitive to initial imperfections in the shape and thus the maximal load supported in the presence of unavoidable initial deviations can be the same for shells with and without a restraint to circumferential displacements along the edges Author *A Collection of Technical Papers* ,1980

Developments in Thin-walled Structures ,1984 *Technical Paper - Florida Engineering and Industrial Experiment Station* University of Florida. Engineering and Industrial Experiment Station,1966 *Developments in Theoretical and Applied Mechanics* ,1970 **Proceedings of the Seventh International Conference on Experimental Stress Analysis, Haifa, Israel, 23-27 August, 1982** ,1982

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