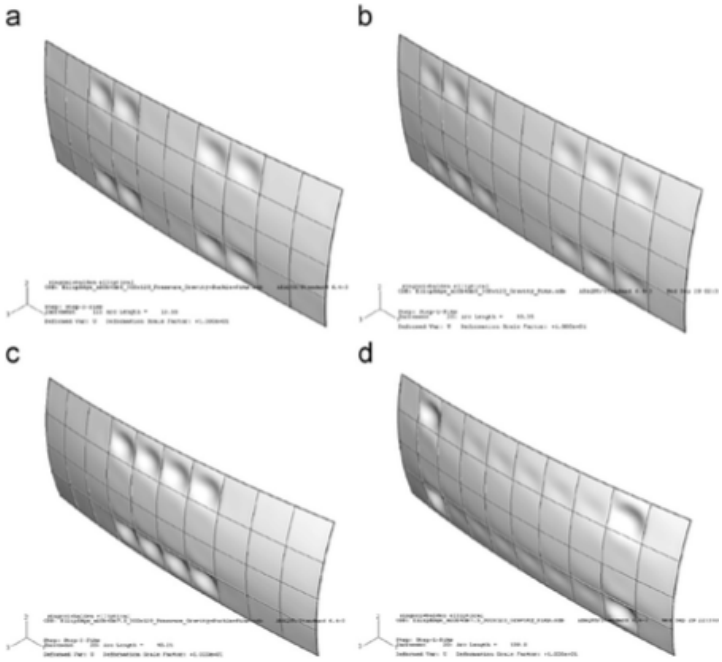
Professor Alphose Zingoni



From: Zingoni A. and Balden V. (2009). On the buckling strength of stiffened elliptic paraboloidal steel panels. Thin-Walled Structures, Vol. 47 (Nos. 6 & 7), 661-667

See:
http://www.civil.uct.ac.za/professor-alphose-zingoni
http://www.kjbatheleadership.uct.ac.za/batheleadership/professor-alphose-zingoni
https://www.uct.ac.za/usr/press/2011/prof_zingoni.pdf
http://www.ebe.uct.ac.za/ebenews-Zingoni%20book%20launch
http://www.timeslive.co.za/local/2011/05/22/sa-prof-cracks-secrets-of-shells

Structural Engineering and Mechanics
Civil Engineering
University of Cape Town

Biography:
Alphose Zingoni is Professor of Structural Engineering and Mechanics in the Department of Civil Engineering. He holds an MSc degree in Structural Engineering and a PhD degree in Shell Structures, both awarded by Imperial College of Science, Technology and Medicine of the University of London. In 1992, he won a Royal Commission for the Exhibition of 1851 Postdoctoral Fellowship of the United Kingdom and carried out new research at Imperial College for two years. He served as Dean of the Faculty of Engineering at the University of Zimbabwe from 1997 before joining the University of Cape Town in 1999. He was promoted to Professor in 2002, and served as Head of Department from 2008 to 2012. His research interests encompass shell structures, space structures, structural vibration analysis, finite element modeling, and applications of group theory to computational problems in structural mechanics. Professor Zingoni serves on the editorial boards of six international journals. He founded the Structural Engineering, Mechanics and Computation (SEMC) series of international conferences, now held in Cape Town every three years. Rated an internationally acclaimed researcher by the National Research Foundation of South Africa since 2005, he was elected a Member of the Academy of Sciences of South Africa in 2004, a Fellow of the Institution of Structural Engineers (London) in

2005, a Fellow of the South African Academy of Engineering in 2008, and a Fellow of the International Association for Bridge & Structural Engineering (Zurich) in 2011. He is a registered Professional Engineer with the Engineering Council of South Africa, and a registered Chartered Engineer with the Engineering Council of the United Kingdom.

Selected Publications:

BOOK: Zingoni A. (1997). Shell Structures in Civil and Mechanical Engineering: Theory and Closed-Form Analytical Solutions. Thomas Telford Publishing (UK Institution of Civil Engineers), London, 350 pp. ISBN 0-7277-2574-2.

BOOK: Zingoni A. (Editor) (2002). Special Issue: Plates and Shells: Mechanics and Applications (11 articles). Thin-Walled Structures, Vol. 40 (Nos. 7 & 8), Elsevier Science, Oxford

A. Zingoni, Liquid-containment shells of revolution: A review of recent studies on strength, stability and dynamics, Thin-Walled Structures, 87, 102–114, 2015.

Zingoni A., Mudenda K., French V. and Mokhothu B. (2013). Buckling strength of thin-shell concrete arch dams. Thin-Walled Structures, Vol. 64, pp. 94-102.

Zingoni A. Invited Speaker: Recent progress in mechanics and design of liquid-containment shell structures. Eleventh International Conference on Computational Structures Technology, Dubrovnik (Croatia), Sep. 2012

Zingoni A. (2012). A group-theoretic finite-difference formulation for plate eigenvalue problems. Computers and Structures, Vol. 112/113, pp. 266 - 282.

Zingoni A. (2009). Simplification of the derivation of influence coefficients for symmetric frusta of shells of revolution. Thin-Walled Structures, Vol. 47 (Nos. 8 & 9), 912-918

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Bamu P.C. and Zingoni A. (2005). Damage, deterioration and the long-term structural performance of cooling-tower shells: A survey of developments over the past 50 years. Engineering Structures, Vol. 27 (No. 12), 1794-1800

Zingoni A. (2002). Plates and shells: Mechanics and applications (Guest Editorial). Thin-Walled Structures, Vol. 40 (Nos. 7 & 8), 555-556