



Professor James Rhodes

See:

<https://pure.strath.ac.uk/portal/en/persons/james-rhodes%28d655d298-4007-4d1f-80bb-ee3b66d11bf9%29/publications.html>

Department of Mechanical Engineering
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Honors:

Thin-Walled Structures, Vol. 46, Nos. 7-9, July-September 2008, pp. 963-974, A special issue to mark the Retirement of Professor Jim Rhodes, Founding Editor, doi:10.1016/j.tws.2008.01.033

Selected Publications:

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Rhodes, J. and Harvey, J.M., Examination of plate post-buckling behavior, Journal of the Engineering Mechanics Division, ASCE, 103, EM3, 1977, 461–477.

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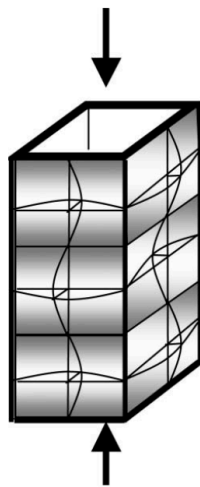
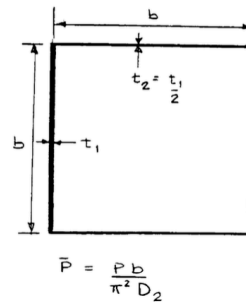


Fig. 1. Locally buckled thin-walled section.



$$\bar{P} = \frac{P b}{\pi^2 D_2}$$

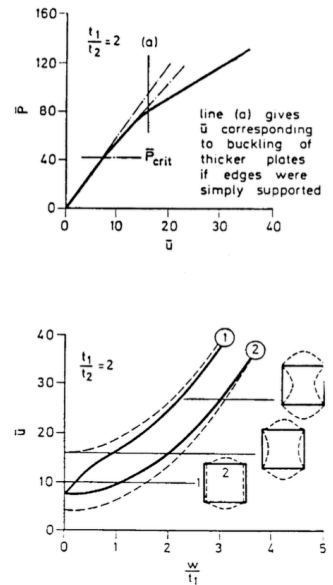


Fig. 5. Buckling of a box section with sides of unequal thickness.

From: J. Rhodes, “Buckling of thin plates and members – and early work on rectangular tubes”, Thin-Walled Structures, Vol. 40, pp 87-108, 2002

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Marshall, I. H., and Rhodes, J., "Snap-Buckling of Thin Shells of Rectangular Planform," Stability Problems in Engineering Structures and Components, edited by T. H. Richards and P. Stanley, Applied Science Publisher, London, 1979, pp. 249–264.

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Rhodes, J., Walker, A.C. (Editors.): *Developments in Thin-Walled Structures*, Applied Science Publ., London, Vol. 1 (1982), Vol. 2 (1984), Vol. 3 (1987, digital version 2005, Taylor & Francis)

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Macdonald M and Rhodes J 2005. Finite Element Modeling of Cold-Formed Stainless Steel Columns. *Acta Polytechnica*, Vol. 45 No.3, 92-98.

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