

Dr. S. B. Kendrick

Naval Construction Research Establishment
Admiralty Marine Technology Establishment
Dunfermline, Scotland

Selected Publications:

Kendrick, S., "The buckling under external pressure of circular cylindrical shells with evenly spaced equal strength circular ring frames – Part I, Report N.C.R.E./R.211, 1953, Dunfermline, Scotland: Naval Construction Research Establishment

Kendrick, S., *The Stress Analysis of Pressure Vessels and Pressure Vessel Components*, Pergamon Press, 1970.

Kendrick S (1970) Externally pressurized vessels. In: Gill SS (ed) *The stress analysis of pressure vessels and pressure vessel components*. Pergamon, Toronto, pp 405–511

S. Kendrick (Admiralty Marine Technology Establishment, St Leonard's Hill, Dunfermline, Scotland), "Design for external pressure using general criteria", *International Journal of Mechanical Sciences* Vol. 24, No. 4, 1982, pp. 209-218, doi:10.1016/0020-7403(82)90075-3

ABSTRACT: The paper presents general design criteria for designing pressure vessels to withstand external pressure. Combinations of dome ends, cones and cylinders are considered. The criteria reduce to those given in BS 5500 for simple geometries. General criteria are given for the design of ring stiffening including the choice of stiffener proportions. The use of sophisticated analytical techniques to assist in meeting those criteria is demonstrated by means of numerical examples.

S. Kendrick, "Ring-stiffened cylinders under external pressure", in *Shell structures stability and strength*, edited by R. Narayanan, 1985, pp. 57-95, Elsevier Applied Science, London

S.B. Kendrick (Consultant, formerly ARE, Dunfermline, UK), "The design of externally pressurized vessels with BS 5500", in *Pressure vessel design: concepts and principles*, edited by John Spence, A. S. Tooth, E & FN Spon, 1994 (abstract not available)