

Pressure Vessel Design: Concepts and Principles, edited by J. Spence and A. S. Tooth. E & FN Spon (Chapman & Hall), New York, 1994. 491 pages. Price: \$119.95.

REVIEWED BY C. W. BERT¹

This book consists of 12 chapters, three of which were authored by Professor Spence, and the others by various specialists.

The emphasis is on design of pressure vessels including plastic design concepts (Chapter 3), design by rule and design by

analysis (Chapter 4), design of nozzles and branch connections (Chapter 6), design of dished ends (Chapter 7), design for external pressure (Chapter 8), design of tubesheets (Chapter 10), design of flanges (Chapter 11). Chapter 5 deals with local loads and supports, Chapter 9 is concerned with fatigue aspects. The final chapter addresses progress toward a European standard for design of pressure vessels.

The book is well illustrated and adequately referenced and indexed. It is recommended for design engineers concerned with the design of practical pressure vessels of homogeneous, isotropic materials. It is especially recommended to those concerned with British and European design practices and standards. Unfortunately, it does not address vessels constructed of composite materials, although it does include some information on design of ring-stiffened shells.

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