# TOPICAL REFERENCES

#### **Dished Ends**

- Findlay, G. E., Moffat, D. G., and Stanley, P., Elastic Stresses in Torispherical Drumheads: Experimental Verification, J. Strain Anal., 3(3) (1968), 214–225.
- Shield, R. T. and Drucker, D. C., Design of Thin Walled Torispherical and Toriconical Pressure Vessel Heads, J. Applied Mech., Trans. ASME (1961) (83), 292–297.
- Galletly, G. D., Torispherical Shells—A Caution to Designers, J. Eng. Industry, Trans ASME, Feb 1969, 51–62.
- 4. Findlay, G. E., Moffat, D. G., and Stanley, P., Torispherical Drumheads: A Limit Pressure and Shakedown Investigation, *J. Strain Anal.*, 6(3) (1971), 147–166.
- Bushnell, D., BOSOR-5 Program for the Buckling of Elastic-Plastic Shells of Revolution Including Large Deflections and Creep, Computer and Struct., 6 (1976), 221–239.
- Galletly, G. D., Design Equations for Preventing Buckling in Fabricated Torispherical Shells Subjected to Internal Pressure, *Proc. Inst. Mech. Eng.*, 200(A2) (1986), 127–139.
- 7. Kalnins, A. and Updike, D. P., New Design for Torispherical Heads (Welding Research Council Bulletin 364), June 1991, United Engineering Centre, New York.
- Kalnins, A. and Updike, D. P., Elastic-Plastic Analysis of Shells of Revolution under Axisymmetric Loading (Welding Research Council Bulletin 364), June 1991, United Engineering Centre, New York.
- Galletly, G. D. and Blachut, J., Buckling Design of Imperfect Welded Hemispherical Shells Subject to External Pressure, Proc. Inst. Mech. Eng., 205C (1991), 175–188.

# **Local Loads and Supports**

- Wichman, K. R., Hopper, A. G., and Mershon, J. L., Local Stresses in Spherical and Cylindrical Shells Due to External Loadings (Welding Research Council Bulletin 107), 1965 (revised March 1979), United Engineering Centre, New York.
- Bijlaard, P. P., Stresses from Radial Loads in Cylindrical Pressure Vessels, Weld. J. Res. Suppl., 33 (1954), 615–623.
- Duthie, G. and Tooth, A. S., Local Loads on Cylindrical Vessels; a Fourier Series Solution, in Behaviour of Thin Walled Structures, Rhodes and Spence, Eds., Elsevier Applied Science, 1984, 235–272.
- Bijlaard, P. P., Additional Data on Stresses in Cylindrical Shells under Local Loading (Welding Research Council Bulletin 50), May 1959, United Engineering Centre, New York.
- Bijlaard, P. P., Local Stress in Spherical Shells from Radial or Moment Loading, Weld. J. Res. Suppl., 36(5) (1957), 240.
- Bijlaard, P. P., On the Stresses from Local Loads on Spherical Pressure Vessels and Pressure Vessel Heads (Welding Research Council Bulletin 34), 1957, United Engineering Centre, New York.
- Zick, L. P., Stresses in Large Horizontal Cylindrical Vessels Supported by Saddles Weld to the Vessel—A Comparison of Theory and Experiment, 3rd Int. Conf. Pressure Vessel Techn., ASME, New York, 1977, 25–38.
- 17. Tooth, A. S. and Nash, D. H., Stress Analysis and Fatigue Assessment of Twin Saddle Supported Vessels, Pressure Vessel and Components ASME Conf., ASME, New York, 1991, 41.
- 18. PD 9467, Stress in Horizontal Cylindrical Vessels Supported on Twin Saddle-Derivation of the Basic Equations Used in BS 5500, BSI, London, 1982.

19. Kupka, V., The Background to a New Design Proposal for Saddle Supported Vessels, *Int J. Pressure Vessel & Piping*, 46 (1991), 51–65.

### **Nozzles**

- Leckie, F. A. and Penny R. K., Stress Concentration Factors for the Stresses at Nozzle Intersections in Pressure Vessels (Welding Research Council Bulletin 90), 1963, United Engineering Centre, New York.
- Eringen, A. C. et al., Stress Concentrations in Two Normally Intersections Cylindrical Shells Subjected to Internal Pressure (Welding Research Council Bulletin 139), 1969, United Engineering Centre, New York.
- 22. Rose, R. T., Stress Analysis of Nozzle in Thin Walled Cylindrical Pressure Vessels, *Brit. Welding J.*, 12(2) (1965).
- 23. Money, H. A., The Design of Flush Cylinder/Cylinder Intersections to Withstand Internal Pressure (CEGB Report R.D/B/N1061) CEGB, Berkley, Gloucester, UK, 1968.
- Decock, J., Determination of Stress Concentration Factors and Fatigue Assessment of Flush and Extended Nozzles in Welted Pressure Vessels (Paper II-59), 2nd Int. Conf. Pressure Vessel Techn., San Antonio, Texas, Oct. 1973.
- Decock, J., Reinforcement Method of Openings in Cylindrical Pressure Vessels Subject to Internal Pressure (CRIF Report MT104), Univ. Ghent, Belgium, 1975.
- Mershon, J. L. et al., Local Stresses in Cylindrical Shells Due to External Loadings on Nozzles (Supplement to Welding Research Council Bulletin 107, WRCB No 297), 1965, United Engineering Centre, New York.
- 27. Moffat, D. G. and Mistry, J., Interaction of External Moment Loads and Internal Pressure on Variety of Branch Pipe Intersections, Proc. 6th Int. Conf. Pressure Vessel Techn., Pergamon Press, Oxford, UK, 533–549.

# **Exchanger Bellows**

- 28. Standards of the Expansion Joint Manufacturers Association, EJMA, New York.
- Kopp, S. and Sayre, M. F., Expansion Joints for Heat Exchangers, ASME Misc. Papers, Vol. 6, No. 211 (1950 ASME Annual Meeting).
- Thomas, R. E., Validation of Bellows Design Criteria by Testing, ASME PV & Piping Conf., Orlando, Florida, 1982.
- 31. Smith, A. G., An Investigation into the Design of Thick Walled Bellows for Heat Exchangers, Ph.D. thesis, Paisley College of Techn., Paisley, Scotland, 1981.
- 32. Becht, C., Hong, C., and Skopp, G., Stress Analysis of Bellows, 11, ASME PVP-Vol. 51, 1981.
- Stastny, R. J., Metallic Convoluted Expansion Joints, Application, Specification, and Installation, 61, ASME PVP-Vol. 51, 1981.

#### **Fatigue**

- 34. Langer, B. F., Design of Pressure Vessels for Low Cycle Fatigue, *J. Basic Eng.* (Trans ASME Series b), 84 (1962), 389–402.
- Maddox, S. J., Fatigue Strength of Welded Structures, Abington Publishing, Abington, Cambridge, 1991.
- Harrison, J. D. and Maddox, S. J., A Critical Examination of the Rules for the Design of Pressure Vessels Subject to Fatigue Loading, in Proceedings 4th Int. Conf. on Pressure Vessel Techn., Inst. Mech. Eng., London, 1980.
- PD 6493, Guidance on Methods for Assessing in Acceptability of Flaws in Fusion Welded Structures, BSI, London, 1991.