## REFERENCES

- 1. SHERBOURNE, A.N.
  "Bolted beam to column connections", The Structural Engineer, June 1961.
- 2. SCHUTZ, (Jr.), F.W.
  "Strength of moment connections using high tensile bolts",
  Proceedings A.I.S.C., April, 1959.
- BAKER, J.F., HORNE, M.R. & HEYMAN, J.
  "The steel skeleton", Vol. I, Cambridge University Press, 1956.
- VASARHELYI, D.D.
  "Tests of gusset plate models", Vol. 97, ST2, A.S.C.E.,
  Feb. 1971.
- 5. KENNEDY, J.B. & SINCLAIR, G.R.
  "Ultimate capacity of single bolted angle connections", Vol. 95, ST8, A.S.C.E., Aug. 1969.
- 6. POWER, E.H. & FISHER, J.W.
  "Behaviour & design of shingle joints", Vol. 98, ST9,
  A.S.C.E., Sept. 1972.
- 7. SHOUKRY, Z. & HAISCH, W.T.
  "Bolted connections with varied hole diameters", Vol. 196, ST6,
  A.S.C.E., June 1970.
- 8. INSTITUTION OF STRUCTURAL ENGINEERS, LONDON.
  "Conference on joints in Structures", University of Sheffield,
  8th 10th July, 1970.
- 9. BOUWKAMP, J.G.
  "Concept of tubular joint design", Vol. 90, ST2, A.S.C.E., April
  1964.
- 10. BOUWKAMP, J.G.

  "Recent trends in research on tubular connections", Paper No. SPE 1411,
  Society of Petroleum Engineers of A.I.M.E., TEXAS, May 1966.
- 11. ANDERSON, G.W.

  "Circumferential stresses in a joint between structural tubes",

  Special Report, Commonwealth Experimental Building Station, Sydney,
  Australia, May 1961.
- 12. BLOCKLEY, D.I.
  "Joints between structural hollow sections in plane frameworks",
  Ph.D. Thesis, University of Sheffield, 1967.
- 13. SHINOUDA, M.R.
  "Stiffened tubular joints", Ph.D. Thesis, University of Sheffield,
  1967.

- 14. EASTWOOD, W. & WOOD, A.A.

  "Welded joints in tubular structures involving rectangular sections",
  Institution of Structural Engineers, LONDON, Conference on joint in
  Structures, University of Sheffield, 1970.
- 15. C.I.D.E.C.T. PUBLICATION
  "Welded joint tests" Corby, Programme 5EC, Interim Report, Sept.
  1970.
- 16. MEE, B.L.
  "The Structural behaviour of joints in rectangular hollow section",
  Ph.D. Thesis, University of Sheffield, 1969.
- 17. VAN DEN BROEK, J.A.
  "Theory of limit design", John Wiley, 1948.
- 18. HANSON, A. & PARR, J.G.
  "The engineer's guide to steel", Addison-Wesley, Reading,
  Massachusett, 1965.
- 19. ROBINSON, H.C.

  "A literature survey on the structural behaviour of tubular joints etc.", Ph.D. Thesis, University of Sheffield, 1969.
- 20. KUROBANE, Y.
  "Welded truss joints of tubular structural members", Memoirs of the
  Faculty of Engineering, Kumamoto University, Vol. 12, No. 1,
  Dec. 1964. University of Moratuwa, Sri Lanka.
- 21. ERITISH STEEL CORPORATION (TUBES DIVISION)

  "Research into the strength of welded lattice girder joints in structural hollow sections", Research report, CIDECT Programme SEC, CE 70/3, May 1971.
- 22. EASTWOOD, W.
  "TESTS involving joints made from cold-formed tube supplied by
  Messrs HOESCH", University of Sheffield, Private communication.
- 23. EASTWOOD, W.

  "Tests on joints made from cold-formed tube for STEEL COMPANY OF CANADA", University of Sheffield, Private communication.
- 24. STEWART & LLOYDS LIMITED

  "S.S.S. Truss Tests", Department of Research and Technical Development, Report No. C/E, 61/11, 14th January, 1963.
- 25. STEWART & LLOYDS LIMITED

  "S.S.S. Truss Tests (Second Series)", Department of Research and
  Technical Development Report No. C/E 63/3, 23rd October, 1963.
- 26. C.I.D.E.C.T. PUBLICATION

  "Research on the behaviour of joints in tubular lattice girders",

  Programme 5B, Oct. 1968.
- 27. DASGUPTA, A.

  "The behaviour of joints in tubular trusses", Ph.D. Thesis,
  University of Nottingham, 1970.

- 28. CSA Standard W 59.1 1970
  "General specification for welding of steel structures (metal-arc welding).
- 29. BS 449:1970.
  "Specification for the use of structural steel in building".
- 30. BS 938:1962.
  "Specification for general requirements for the metal-arc welding of structural steel tubes to BS 1775".
- 31. BS 1856:1964.
  "General requirements for metal-arc welding of mild steel".
- 32. STELCO, THE STEEL COMPANY OF CANADA LIMITD.
  "Hollow structural sections Design manual for connections".
- 33. HENDRY, A.W. "Elements of experimental stress analysis," Pergamon: Press, 1964.
- 34. SWAINGER, K.

  "Measurement and interpretation of post-yield strains", Proceedings of the Society of experimental stress analysis, Vol. 5, No. 2, 1947.
- TWYMAN, J.

  "Interpretation into stresses of post-yield strains up to 2%",

  Proceedings of the Society of experimental stress analysis, Vol. 6,

  No. 1, 1948.
- 36. MENDELSON, A. "Plasticity; Theory and applications", Collier-Macmillan, London, 1968.
- 37. MURPHY, G.

  "Graphical method for the evaluation of the principal strains
  from normal strains", Journal of Applied Mechanics, Vol. 12, 1945.
- JALLY, J.W. and RILEY, W.F. "Experimental stress analysis", McGraw-Hill, 1965.
- 39. McLINTOCK, F.A.
  "On determining principal strains for strain rosettes with
  arbitrary angles", Proceedings of the Society of experimental stress
  analysis, Vol. 9, No. 1, 1952.
- 40. DURELLI, A.J., HHILLIPS, E.A. and TSAO, C.H.
  "Introduction to the theoretical and experimental analysis of stress and strain", McGraw-Hill, 1958.
- DURELLI, A.J.
  "Applied stress analysis", Prentice-Hall, 1967.
- 42. SPENCER, G.C.
  "An introduction to plasticity", Chapman and Hall, 1968.
- 43. JOHNSON, W. and MELLOR, P.B.
  "Plasticity for mechanical engineers", Van Nostrand, London, 1962.

- 44. CHATES, A., BRITVEC, S.J. and WINTER, G.
  "Effects of cold-straining on structural sheet steels", Vol. 89,
  ST2, ASCE, April 1963.
- 45. KARREN, K.W.
  "Corner properties of cold-formed shapes", Vol. 93, ST 1, ASCE, February, 1967.
- 46. LIGHT GAUGE COLD-FORMED STEEL DESIGN MANUAL
  "Specification for the design of light gauge cold-formed steel structures", American Iron and Steel Institute, New York, 1962.
- 47. Addendum No. 1 (1961) to BS 449 (FD 4064)
  "Specification for the use of cold-formed steel sections in Building".
- 48. KARREN, K.W. and WINTER, G.
  "Effect of cold-forming on light gauge steel members", Vol. 93,
  ST 1, ASCE, February 1967.
- WINTER, G. and URIBE, J.

  "Effect of cold-work on cold-formed steel members", "Thin walled structures", Editors ROCKEY, K.C. and HILL, R.V., Crosby Lockwood and Son Ltd., 1969.
- 50. OSGOOD, W.R.

  "The effect of residual stresses on column strength," Proceedings,
  First U.S. National Congress of Applied Mechanics, New York, June,
  1951.
- FETERSON, R.E. and BERGHOLM, A.O.

  "Effects of forming and welding on stainless steel columns,"

  American Institute of Aeronautics and Astronautics, Vol. 20,

  No. 4, April 1961.
- 52. DHALLA, A.K., ERRERA, S.J. and WINTER, G.
  "Connections in thin low ductility steels", Vol. 97, ST 10, ASCE,
  October 1971.
- 53. FRANKLAND, J.M.
  "Ductility and the strength of metallic structures", Vol. 86,
  EM 6, Engineering Mechanics division, ASCE, December 1960, Part 1.
- PARCEL, J.I. and MURER, E.B.
  "The effect of secondary stresses upon ultimate strength",
  Transactions, Vol.101, ASCE, 1936.
- YU, C.K. and TAIL, L.
  "Significance and application of stub column test results," Vol. 97, ST 7, ASCE, July 1971.
- 56. RICHARDS, C.W.
  "Engineering Materials Science, Chapman and Hall Limited, London.
- 57. McCLINTOCK, F.A. and ARGON, A.S.
  "Mechanical behaviour of materials", Reading, Mass., Addison-Wesley,
  1966.

- 58. ROSENTHAL, D. and ASIMOW, R.M.
  "Introduction to properties of Materials", Van Nostrand Reinhold
  Co., 1966.
- 59. CHILVER, A.M.
  "Structural problems in the use of cold-formed steel sections",
  Vol. 20. Proceedings I.C.E., October 1961.
- 60. BS 18 Part 4: 1971.
  "Methods for tensile testing of metals", Steel tubes.
- 61. BS 18 Part 3: 1971.
  "Methods for tensile testing of Metals,", Steel sheet and strip
  (less than 3mm and not less than 0.5 mm thick).
- 62. BS 18 Part 2: 1971.
  "Methods for tensile testing of Metals", Steel (general).
- 63. BS 3894: Part 1: 1965.
  "Methods for converting elongation values for steel, carbon and low alloy steels".
- 64. METALS HANDBOOK, AMERICAN SOCIETY OF TESTING METALS
  "The selection of steel for yield strength at minimum cost".
- 65. BS 4360: 1972. "Specification for weldable structural steels".
- 66. BS 131 Part 2: 1959. "Charpy V-notch impact test."
- 67. BS 240 Part 1: 1962.
  "Method for Brinell hardness test; Testing of metals".
- 68. BS 860: 1967.
  "Tables for comparison of hardness scales".
- 69. SCHLENKER, B.R.
  "Introduction to Materials Science", Sydney, Wiley, 1969.
- 70. AMERICAN SOCIETY OF METALS "Metals Handbook".
- 71. SCHWAIGHOFER, J.

  "Determination of residual stresses on the surface of structural parts", Proceedings, Society of experimental stress analysis, Vol. XXI, No. 1, 1964.
- 72. ESTUAR, F.R. and TALL, L.
  "Experimental investigation of welded built-up columns", The
  Welding Journal, Vol. 42, No. 4, 1963.
- 73. HETENYI, M.
  "Handbook of experimental stress analysis", John Wiley and Sons,
  New York, 1950.
- 74. SHERMAN, D.R.

  "Residual stresses and tubular compression members", Vol. 97, ST3, ASCE, March 1971.

- 75. SHERMAN, D.R.

  "Residual stress measurement in tubular members", ST 4, ASCE,
  April 1969.
- 76. KOROL, R.M. and HUDOBA, J.
  "Plastic behaviour of hollow structural sections", Vol. 98, ST 5,
  ASCE, May 1972.
- 77. SCORDELIS, A.C. and BOUWKAMP, J.G.

  "Analytical study of tubular Tee-joints", Proceedings A.S.C.E.,

  Structural Division, Vol. 96, ST 1, January 1970.
- 78. FLUGGE, W. "Stresses in shells", Springer-Verlag, Berlin, 1960.
- 79. TOPRAC, A.A. and BEALE, L.A.
  "Analysis of implane T, Y and K welded connections," Report P550-9,
  Structures Fatigue Research Laboratory, Department of Civil Engineering
  University of Texas, April 1967.
- 80. SCORDELIS, A.C. and LO, K.S.
  "Computer analysis of cylindrical shells", Journal of the American
  Concrete Institute, Proceedings, Vol. 61, No. 5, May 1964.
- 81. KRAUS, H. "Thin elastic shells," John Wiley and Sons, 1967.
- 82. REDWOOD, R.G.
  "The behaviour of joints between rectangular hollow structural members", Civil Engineering and Public Works Review, October, 1965.
- 83. MEHROTRA, B.L. and REDWOOD, R.G.
  "Load transfer through connections between box sections",
  Transactions, Engineering institution, Canada.
- 84. PAFEC 70,
  Computer programs, Mechanical engineering department, University of
  Nottingham.
- 85. SHERBOURNE, A.N., BOSE, S.K. and McNEICE, G.M.
  "Column webs in steel beam-to-column connexions; Part I and II,"
  International Journal of Computers and Structures, Vol. 2, 1972.
- 86. HOLAND, I. and BELL, K.

  "Finite element methods in stress analysis", Tapir, Trondheim,
  Norway, 1969.
- 87. TURNER, M.J. et al.
  "Stiffness and deflection analysis of complex structures", Journal of Aeronautical Sciences, 23, 9, 1956.
- 88. ROCKEY, K.C. and EVANS, H.R.

  "A finite element solution for folded plate structures", "Space structures", edited by R.M. Davies, Blackwell Scientific Publishers, Oxford and Edinburgh.
- 89. FOX, L.
  "An introduction to numerical linear algebra", Clarendon Press,
  Oxford, 1964.

- 90. ZIENKIEWICZ, 0.C.
  "The finite element method in engineering science", McGraw-Hill,
  London, 1971.
- 91. DESAI, C.S. and ABEL, J.F.
  "Introduction for finite element method a numerical method for engineering analysis", Van Nostrand Reinhold, 1972.
- 92. OLIVIERA, E.R. De A.
  "Theoretical foundations of finite element method", International
  Journal of Solds and Structures, Vol. 4, No. 10, October 1968.
- 93. ZIENKIEWICZ, O.C.
  "Finite element method from intuition to generality", Applied mechanics review, Vol. 23, No. 3, March 1970.
- 94. FELLIAPPA, C.A. and CLOUGH, R.W.
  "The finite element method in solid mechanics", American Mathematical Society, Vol. II, 1970.
- 95. BAZELEY, G.P., CHEUNG, Y.K., IRONS, B.M. and ZIENKIEWICZ, O.C.
  "Triangular elements in plate bending Conforming and non-conforming solutions", Proceedings on Conference on Matrix methods in structural mechanics, Wright-Patterson Air Force Base, Ohio, 1965.
- 96. MEHROTRA, B.L., MUFTI, A.A. and REDWOOD, R.G.

  "Analysis of three dimensional thin walled structures", Vol. 95,
  Proceedings A.S.C.E., ST 12, December 1969.
- 97. CHEUNG, Y.K., KING, I.P. and ZIENCIEWICZ, O.C.
  "Slab bridges with arbitrary shape and support conditions A
  general method of analysis based on finite elements", Proceedings
  Institution of Civil Engineers, London, Vol. 40, May 1968.
- 98. TIMOSHENKO, S.P. and WOINOWSKY-KREIGER, S. "Theory of plate and shells", McGraw-Hill, New York, 1959.
- 99. MARCAL, P.U. and KING, J.P.
  "Elastic plastic analysis of two dimensional stress systems by the finite element method", International Journal of Mechanical Sciences, Vol. 9, No. 3, 1967.
- 100. CANTIN, G. and CLOUCH, R.W.

  "A curved cylindrical shell finite element", American Institute of Aeronautics and Astronautics Journal, June 1968,
- 101. ROCKEY, K.C. and EVANS, H.R. "Results of a two bay foled plate structure", Private communication.
- 102. BEEDLE, L.S.
  "Plastic design of steel frames", John Wiley and Sons, 1958.
- 103. BAKER, J.F.
  "Steel skeleton", Vol. I, Cambridge University Press, 1954.
- 104. ROWE, R.E., CRANSTON, W.B. and BEST, B.C.
  "New concepts in the design of structural concrete", Vol. 43, No.
  12, The Structural Engineer, December, 1965.

- 105. BATE, S.C.C. "Why limit state design", Vol. 2, No. 3, Concrete, March 1968.
- 106. HUCHES, B.P.
  "Limit state theory for reinforced concrete," Pitman Press, 1971.
- 107. BAKER, A.L.L.
  "Limit state design of reinforced concrete", Cement and concrete
  Association, 1970.
- 108. HEYMAN, J.
  "Plastic design and limit state design", Vol. 51, No. 4, The
  Structural Engineer, April 1973.
- 109. DAVIES, O.L. and GOLDSMITH, P.L.
  "Statistical methods in research and production", Imperial Chemical Industries Limited, 1972.
- 110. LANGLEY, R.
  "Practical statistics for non-mathematical people", David and
  Charles Limited, Newton Abbot, Devon, 1970.
- 111. DANIEL, C. and WOOD, F.S.

  "Fitting equations to data Computer analysis of multifactor data for scientists and engineers", John Wiley and Sons, 1971.
- 112. DRAPER, N.R. and SMITH, H. "Applied regression analysis", John Wiley and Sons, 1968.
- 113. HALD, A.
  "Statistical theory with engineering applications", John Wiley and Sons, 1952.
- 114. INTERNATIONAL COMPUTERS LIMITED

  "Statistical Analysis Mark 2 1900 Series", Technical publication
  4301, International Computers Limited, 1971.
- 115. KURTZ, M.
  "Comprehensive structural design code", McGraw-Hill, 1969.
- 116. INSTITUTION OF STRUCTURAL ENGINEERS
  "Aims of structural design", A report of the Institution of
  Structural Engineers, London, August 1969.
- 117. GAYLORD, E.H. and GAYLORD, C.N. "Design of steel structures", McGraw-Hill, 1957.
- 118. BS CP3: CHAPTER V (LOADINGS)
  Part 1 (Dead and imposed loads), 1967 and Part 2 (wind loads), 1970.
- 119. LINDLEY, D.V. and MILLER, J.C.P.
  "Cambridge Elementary Statistical Tables", Cambridge University
  Press, 1971.
- 120. LOTHERS, J.E.
  "Design in structural steel", Prentice-Hall, New Jersey, 1972.

- 121. BRESLER, B. and LIN, T.Y.
  "Design of steel structures", John Wiley and Sons, London, 1964.
- 122. SHERMER, C.K.
  "Plastic behaviour of eccentrically loaded connections", Vol. 8,
  No. 2, Engineering Journal of the American Institute of Steel
  Construction", April 1971.
- 123. KULAK, G.L.
  Discussion on "Plastic behaviour of eccentrically loaded connections",
  Vol. 18, No. 4, October 1971.
- 124. FISHER, J.W. and RUMFF, J.L.

  "Analysis of bolted butt joints", Vol. 91, ST 5, ASCE, October 1965.
- 125. CRAWFORD, S.F. and KULAK, G.L.
  "Eccentrically loaded bolted connections", Vol. 97, ST 3, ASCE,
  March 1971.
- 126. BUTLER, L.J., PAL, S. and KULAK, G.L.
  "Eccentrically loaded welded connections", Vol. 98, ST 5, ASCE,
  May 1972.
- 127. SHERBOURNE, A.N.
  "Bolted boom to column connections", Vol. 39, The Structural Engineer, June 1961.
- 128. DOUTY, R.T. and McGUIRE, W. "High strength bolted moment connections", Vol. 91, ST 2, ASCE, April 1965.
- 129. SURTEES, J.O. and MANN, A.P.

  "End plate connections in plastically designed structures",

  Conference on Joints in Structures at University of Sheffield,

  Institution of Structural Engineers, London, July 1970.

