Fig. 1.1. La Grande Arche in Paris, France.
Fig. 1.2. The Millennium Bridge in York, UK.

Fig. 1.3. The Lowry Arts Complex in Manchester, England.
Fig. 1.4. Bilbao Metro Railway Station in Bilbao, Spain.

Fig. 1.5. The Gateway Arch in St Louis, USA. (Architectural use of stainless steel)
Fig. 3.2. Mitutoyo co-ordinate measuring machine for local imperfection measurements
Fig. 3.6. Wire-cutting method under water for residual stress measurements
Fig. 3.9. Tensile coupon tests arrangement
Fig. 3.14. Stub column test of SHS 40x40x2

Fig. 3.15. Stub column test of RHS 200x110x4
Fig. 5.4. Local buckling of specimen RHS2L600
Fig. 5.7. Flexural buckling of specimen SHS1L3000

Fig. 5.8. Interaction of local and overall flexural buckling of specimen RHS2L3000
Fig. 6.4. Test rig for beam-column tests
(a) Upper bearing

(b) Bottom bearing

Fig. 6.5. Pin-ended bearing
Fig. 6.6. Two steel stripes bolted to the upper end plate with two parallel lines drawn
Fig. 6.7. Pure flexural buckling of specimen S1L1E10 and S1L2E10
Fig. 6.8. Interaction of local and overall flexural buckling of specimen S21.1E25
Fig. 6.9. Beam-column specimens after failure.