

### 3.7 Summary

Different types of bolted connections were described and classified. The bearing and friction grip bolts were introduced and their installation procedures described. The force transfer mechanisms were explained and the failure modes and corresponding strength calculations were given. This will help in the design of simple bolted connections as in the worked examples. Simple analysis methods for bolt groups resisting in-plane and out-of-plane moments were described. Beam and column splices as well as various types of beam-to-column connections were described and their general behaviour as well as points to be kept in mind during their design was explained.

