Slides from AISC documents and presentations

### CONNECTION TYPES

**TENSION CONNECTIONS**
- Direct Loaded
- Hanger
- Light and Heavy Bracing

**COMPRESSION CONNECTIONS**
- Column Splice
- Beam Bearing Plate
- Column Base Plate

**FRAMING (SHEAR) CONNECTIONS**
- Double Angles
- Single Angle
- Shear Tab
- Shear End-Plate
- Tee Connections
- Seated

### MOMENT ROTATION CURVES

- Type I, FR Moment Connection
  \[ M = 0.9M_i \]
- Type II, Simple Shear Connection
  \[ M = 0.2M_i \]
- Type III, PR Moment Connection
  \[ M = M_i \]

Typical Beam Line

![Double Angles](image)
CONNECTION TYPES

- MOMENT CONNECTIONS
  - Flange Welded
  - Flange Plate Welded
  - Flange Plate Bolted
  - Tee-Stub
  - Moment End-Plate
CLASSIFICATION OF BEAM-TO COLUMN CONNECTIONS

- Fully Restrained – FR or Type I
- Flange Welded
- Flange Plate Welded or Bolted
- Tee-Stub
- Moment End-Plate

CLASSIFICATION OF BEAM-TO COLUMN CONNECTIONS

- Partially Restrained – PR or Type II
- Double Angles
- Single Angle
- Shear Tab
- Shear End-Plate
- Seated

CLASSIFICATION OF BEAM-TO COLUMN CONNECTIONS

- Partially Restrained – PR or Type III
- Flush End-Plate
- Flange Angle
- Double Angles