**Slide -73**

**Cathode reaction:**

MnO4-(aq) + 8H+(aq) + 5e- ⇌ Mn2+ (aq) + 4H2O (l)

**Anode reaction:**

Mn(s) ⇌ Mn2+ (aq) + 2e-

**Overall reaction:**

2MnO4-(aq) + 16H+(aq) + 5Mn(s) ⇌ 7Mn2+ (aq) + 8H2O (l)

**Cell potential:**

1.51+ 1.18 = 2.69 V

Also in the data sheet reversible arrows have been used for standard reduction potential values, however, in the PowerPoint instead of reversible arrow single arrows have been used in some places when we write oxidation/ reduction half equations. To make it more clearer which is the correct way?