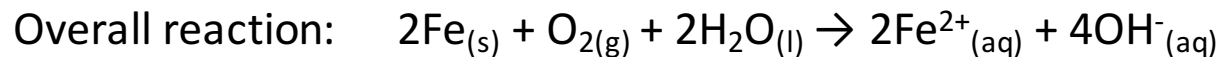
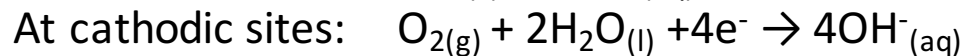
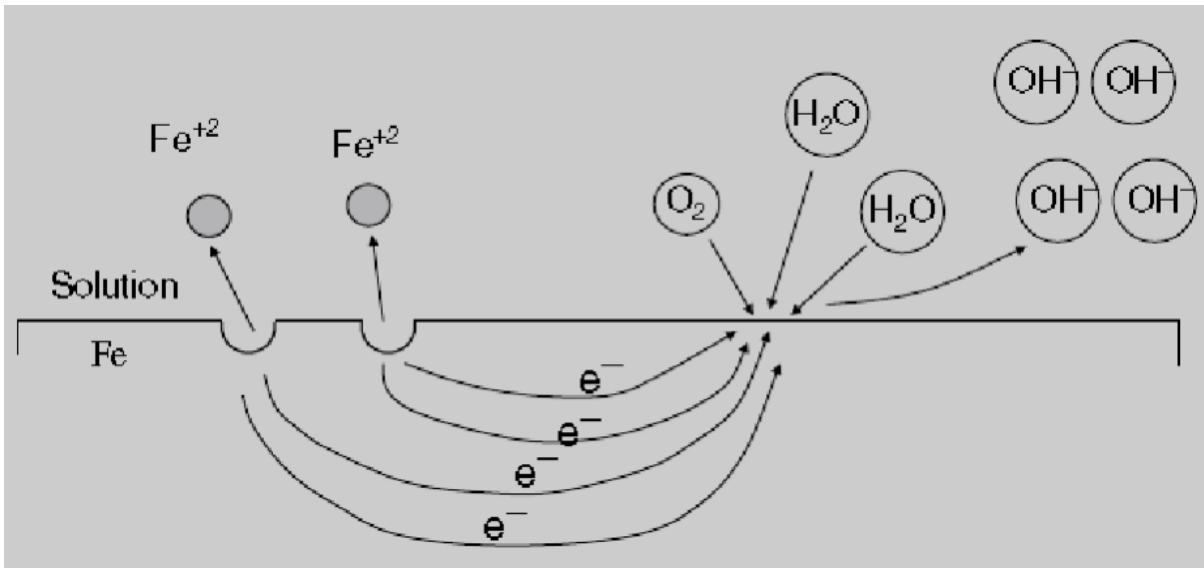


Corrosion is an electrochemical process.

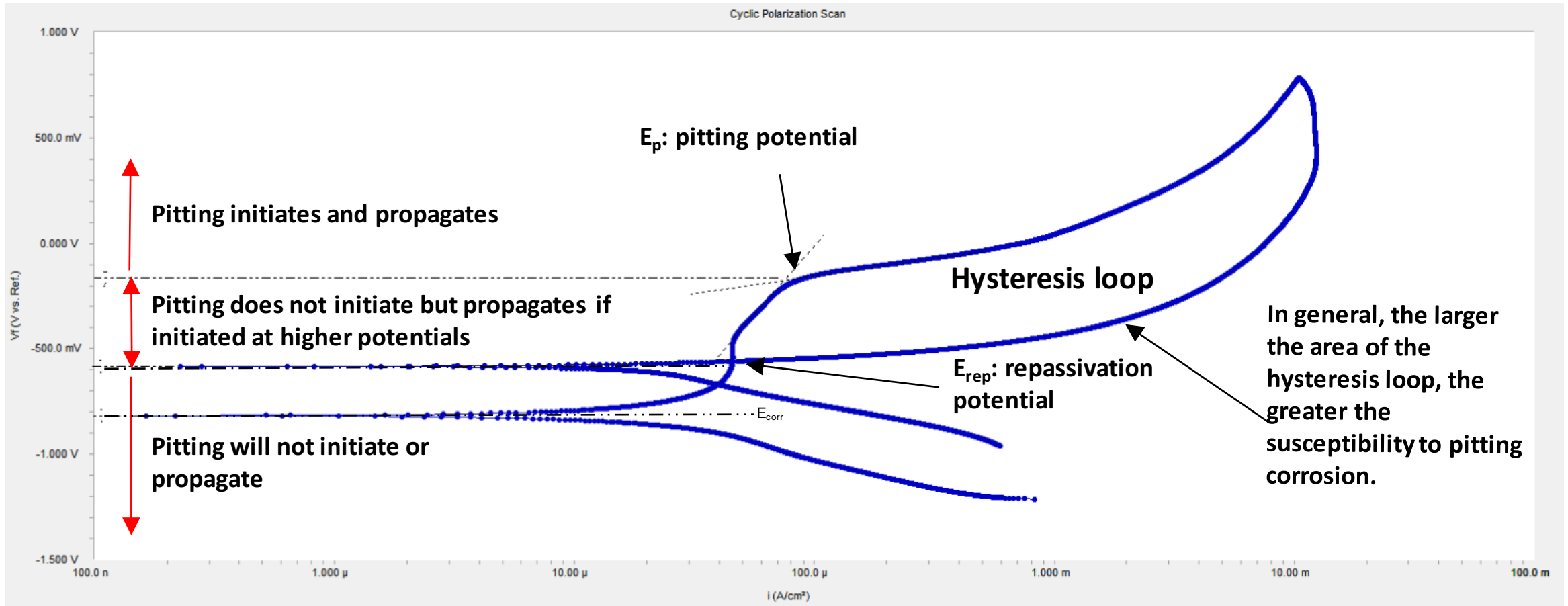
There are four requirements for electrochemical corrosion cell:

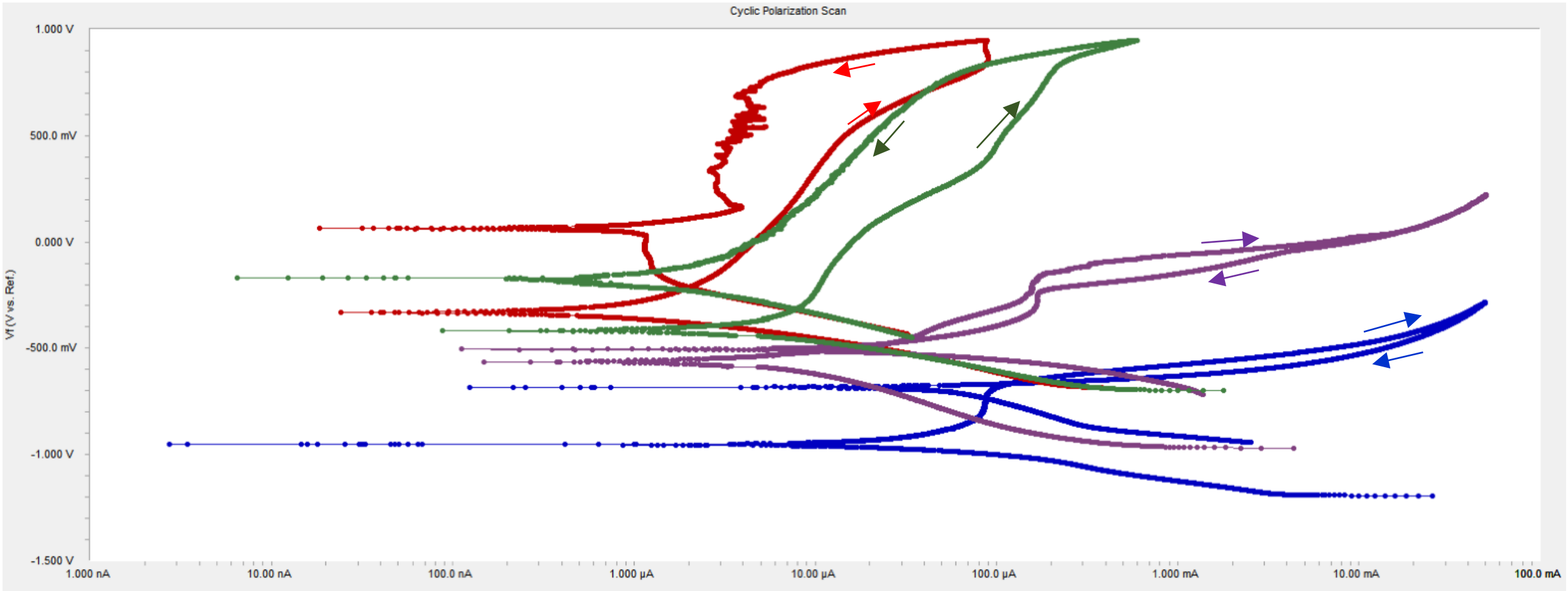
1. **cathodic site** (where electrons are consumed);
2. **anodic sites** (usually where corrosion occurs). Both sites can be on the same piece of metal;
3. cathode and anode are connected through the solution by **an ionic current pass**;
4. and they are connected through the metal by **an electronic path**.



Because corrosion occurs via electrochemical reactions, electrochemical techniques are ideal for the study of the corrosion processes.

HOW TO INTERPRET A CYCLIC POLARIZATION CURVE





Cyclic polarization curve for Eoncoat (green) in comparison with mild steel (blue), stainless steel 304 (magenta) and Hastelloy (red). Arrows show directions of forward and backward sweeps.