

Fig 1 Schematic diagram of apparatus for the determination of polarization curves of a metal in a solution using a potentiostat

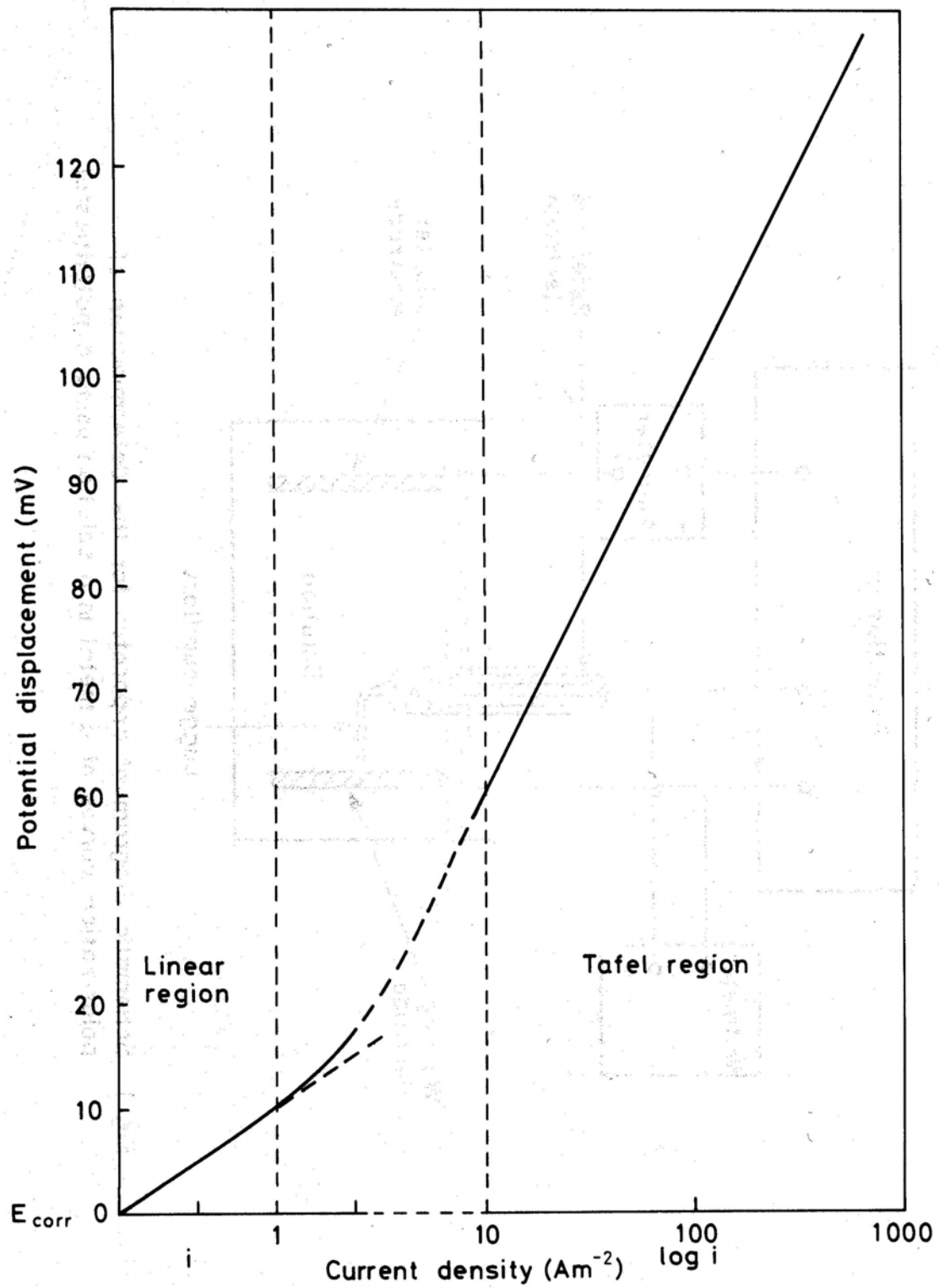


Fig 2 Schematic polarization curve for a corroding metal

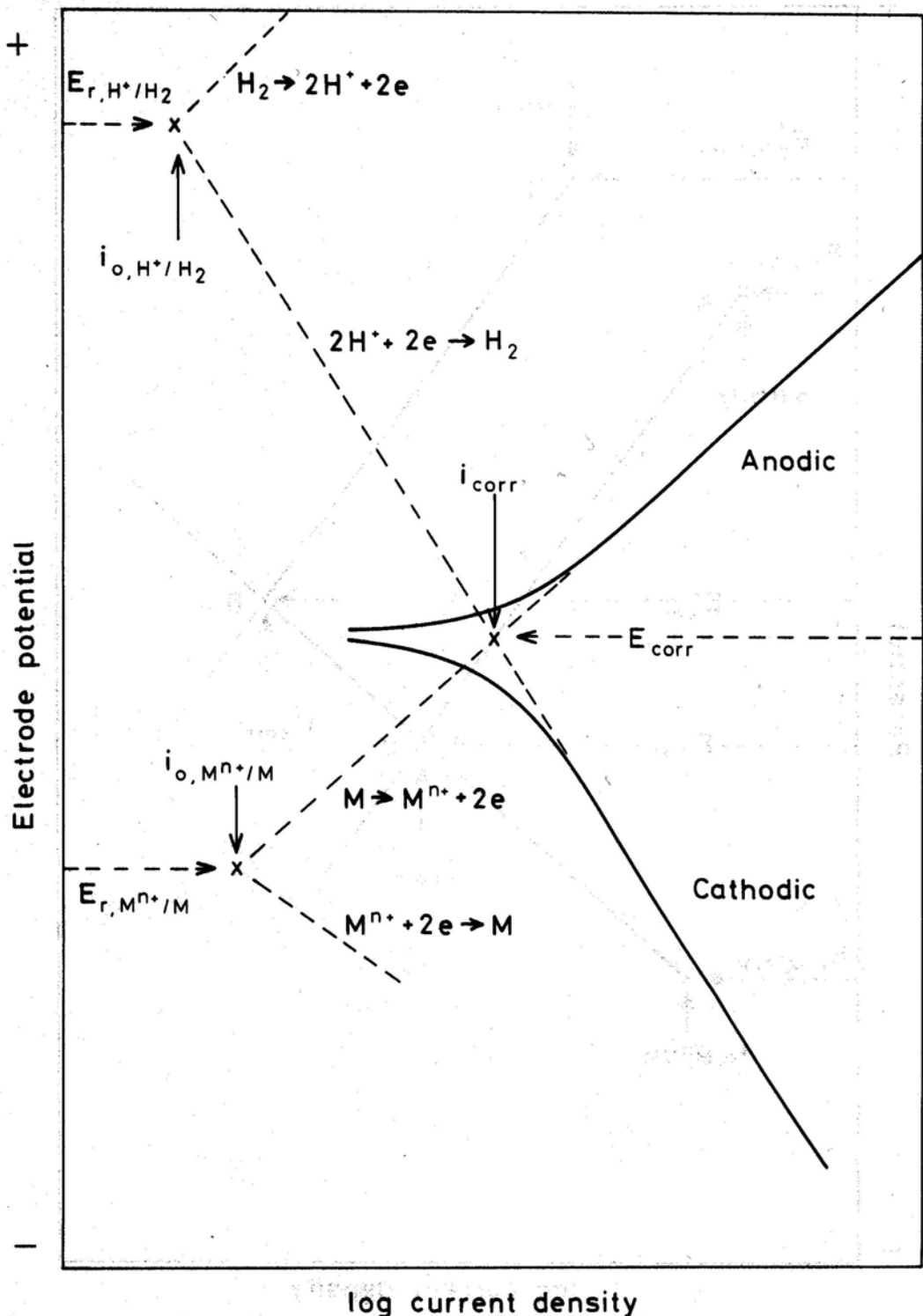


Fig 3 Schematic anodic and cathodic polarization curves for a metal corroding in acid solution

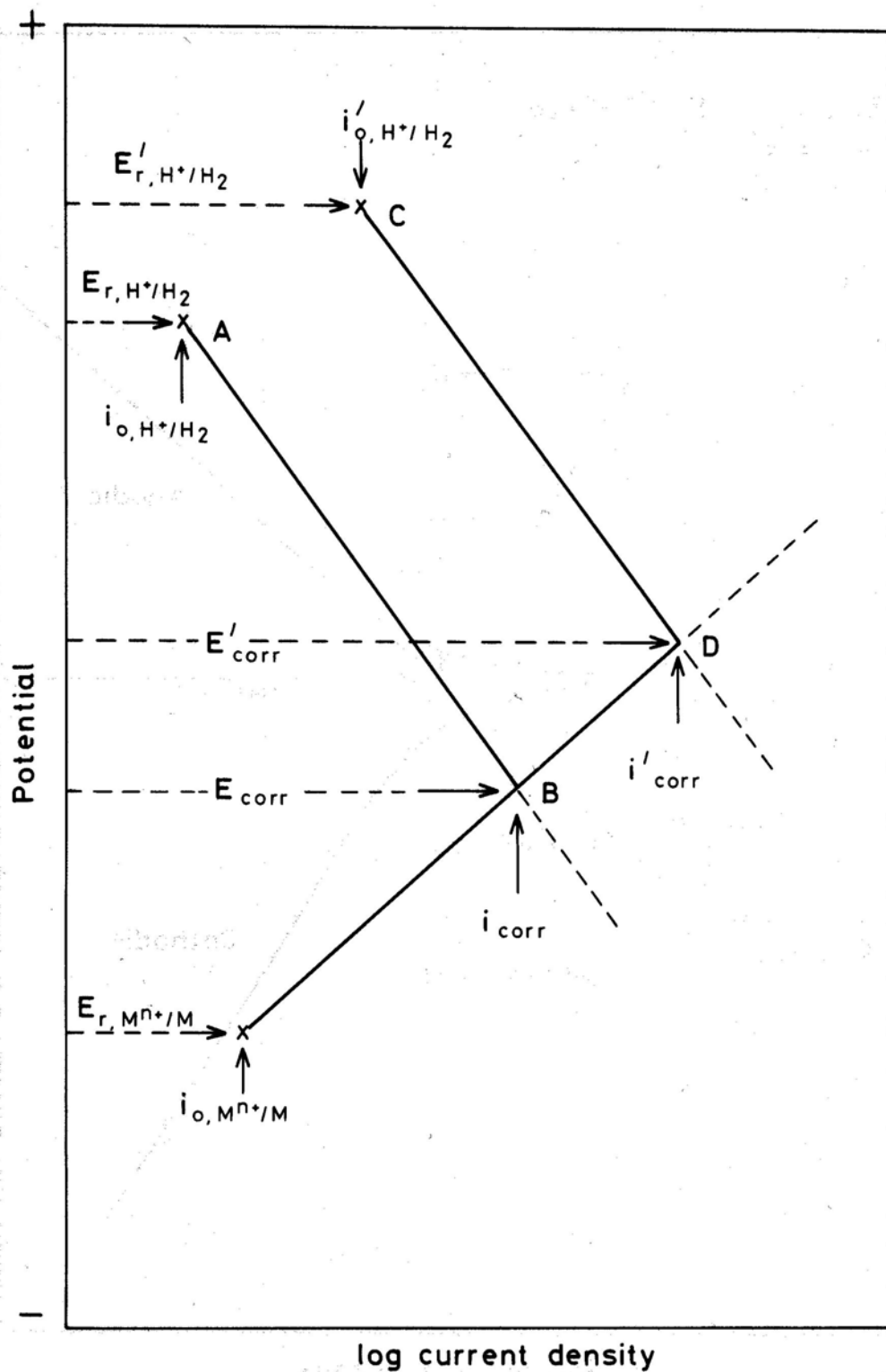


Fig 4 Schematic illustration of the effect of pH on the corrosion of a metal in acid solution

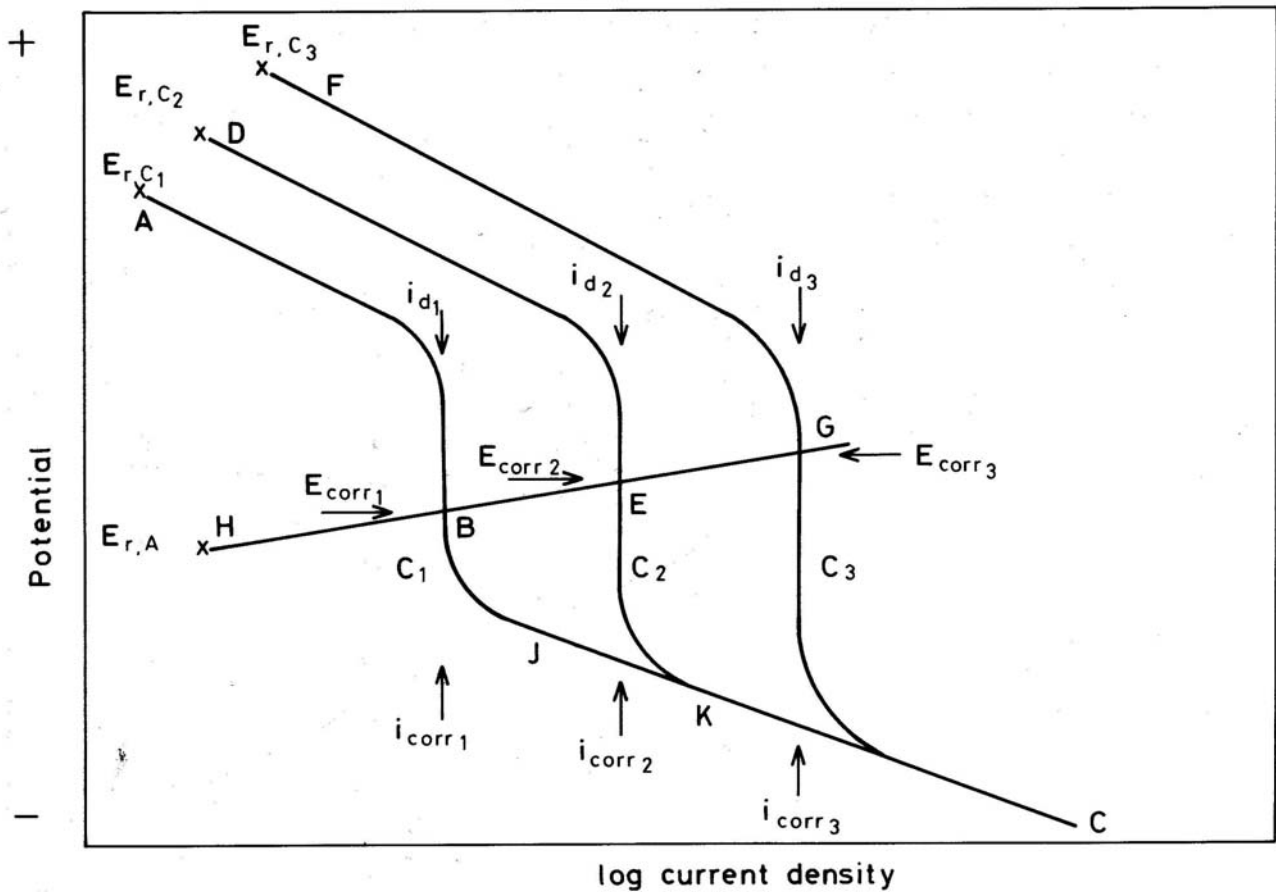


Fig 5 Schematic illustration of the influence of increasing concentrations  $C_1 < C_2 < C_3$  on cathodic polarization curves, and corrosion behaviour when mass transport of cathodic reactant is rate controlling

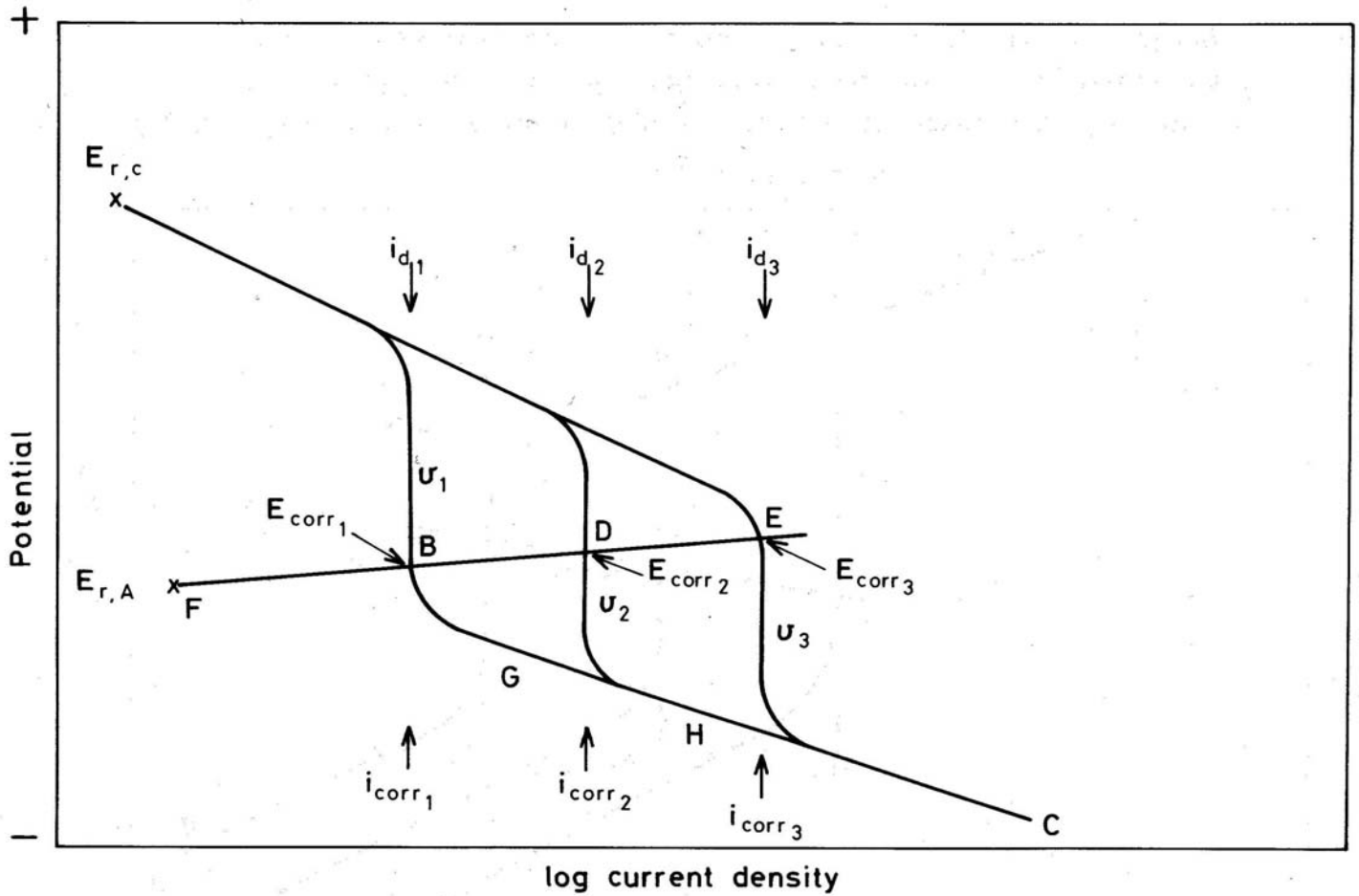


Fig 6 Schematic illustration of the influence of increasing flow velocities  $u_1 < u_2 < u_3$  on cathodic polarization curves, and corrosion behaviour when mass transport of cathodic reactant is rate controlling

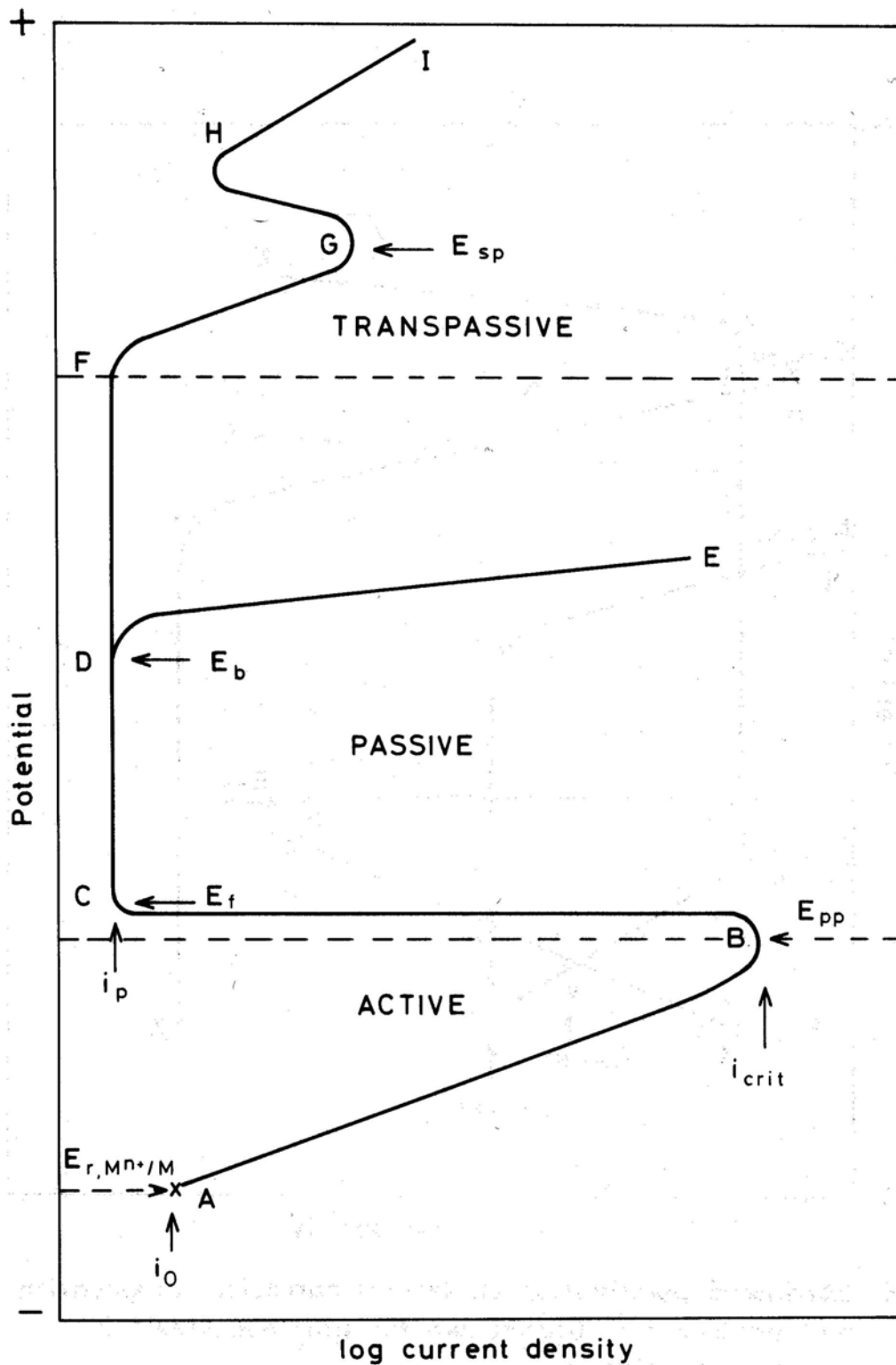


Fig 7 Schematic anodic polarization curve for a metal that shows passive behaviour

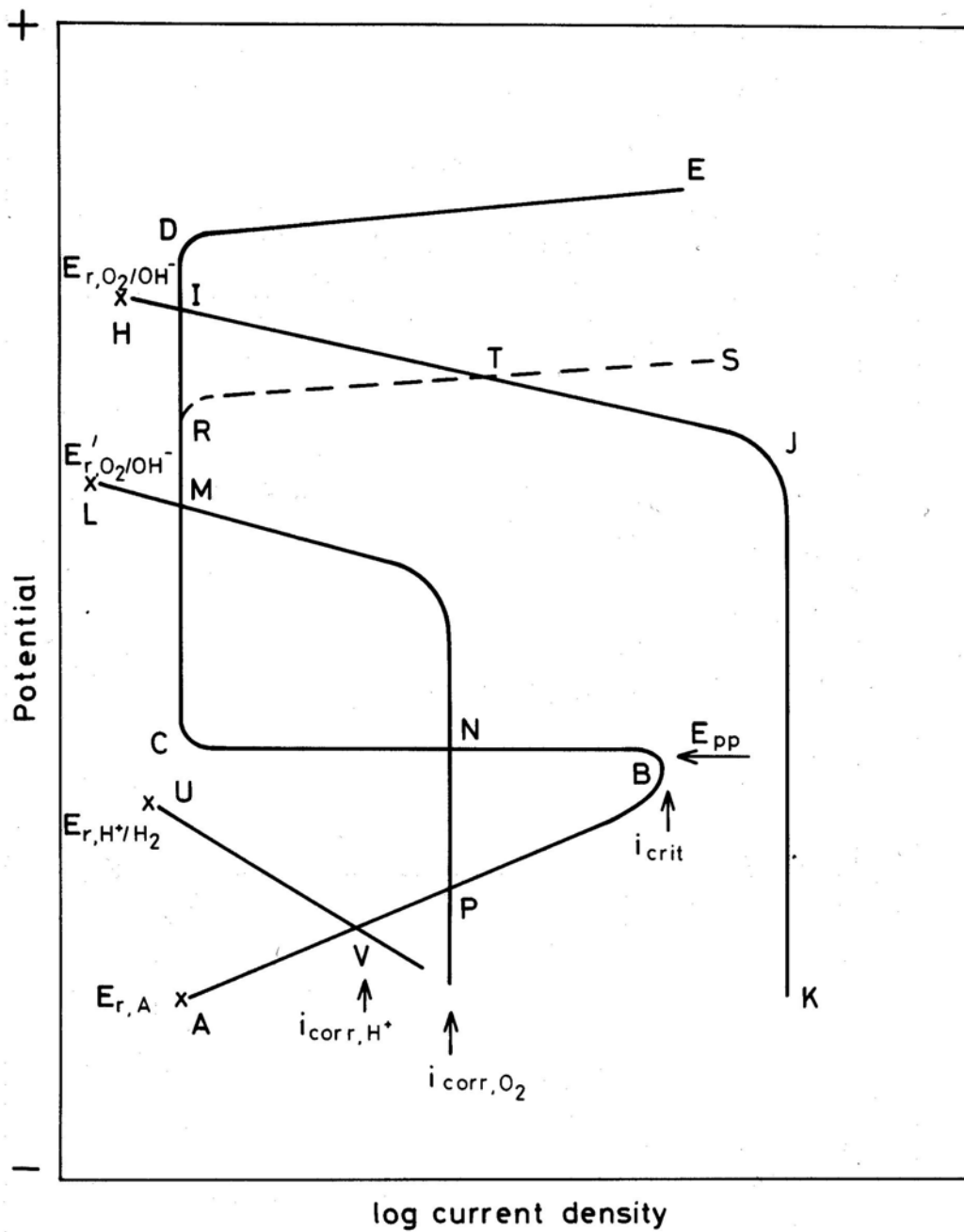


Fig 8 Schematic polarization curves for corrosion, passivation and passive film breakdown for stainless steels in dilute acid solutions

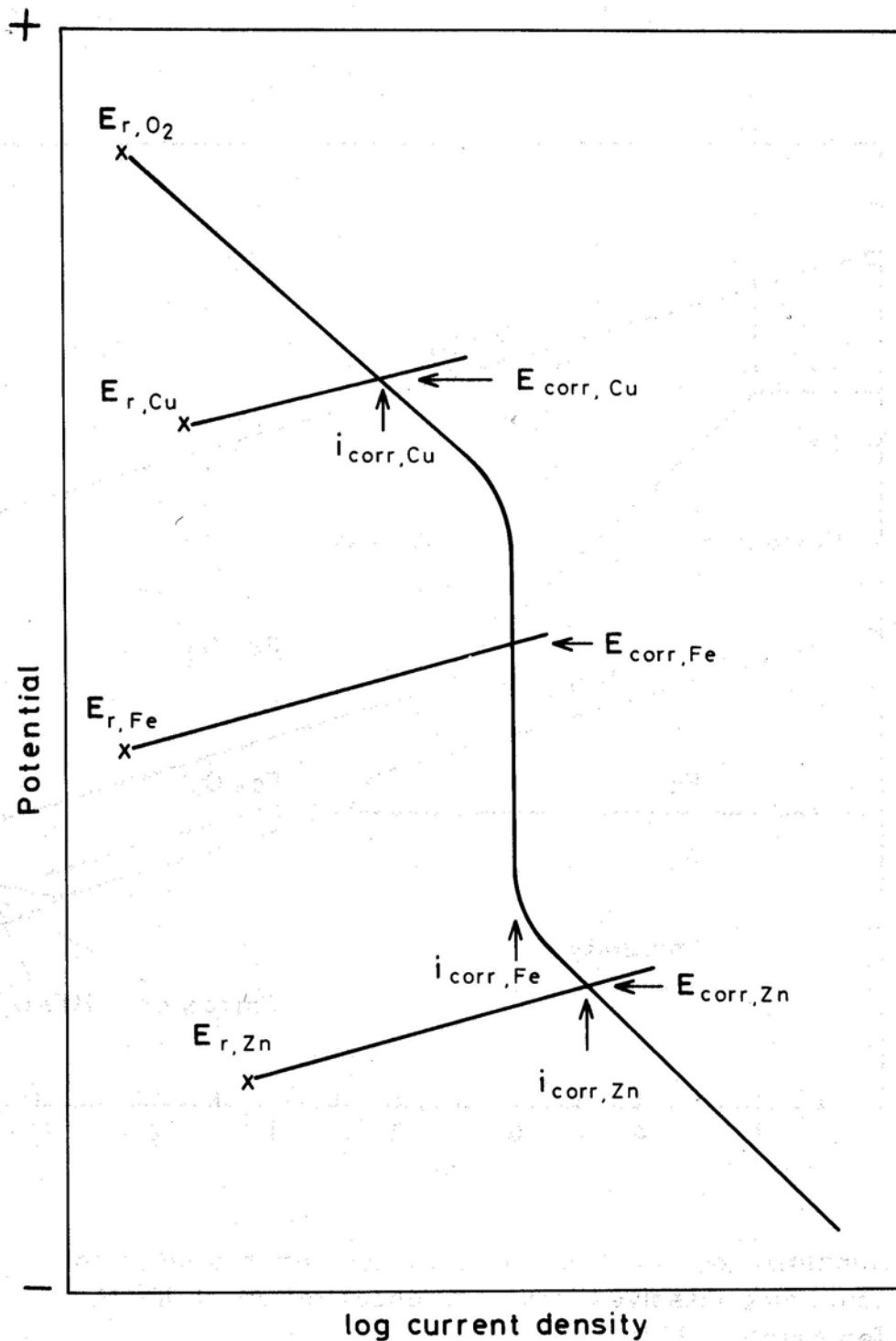


Fig 9 Schematic polarization diagram illustrating the influence of the reversible potentials of copper, iron and zinc on their corrosion in air saturated chloride solution

