

INTERFERENCE OF THE ELECTRODE PROCESSES UNDER ALTERNATING POLARIZATION OF COPPER-ZINC α - AND β -PHASES IN CHLORIDE SOLUTION

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The character of anodic dissolution of α -Cu₂₀Zn and β -Cu₄₄Zn in acidulous chloride media steels the same both under district current and unidirectional pulses. In the case of alternating current (0.17 Hz) reduction of H₃O⁺ and H₂O in cathodic half-period leads to the increasing of sub-electrode solution pH and OH⁻ concentration in adsorption layer of the electrode. In anodic half-period the nature of electrode processes significantly changes: insoluble products copper and zinc oxidation are generated (partially or fully) instead of their soluble compounds.