

75. An Electrochemical Study on Load affecting to Corrosion Behaviors and Properties of Reinforced Concrete in Natural Sea Water, (I . No Load condition)

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When the concrete structures are being used a severe corrosive environment , the corrosion problem of steel embedded in concrete is important in terms of economic view as well as safety disaster. In this study, corrosion behavior of steel in concrete was investigated with parameters of chloride and inhibition addition in natural sea water. The results obtained were as follows: 1) Corrosion potential of steel in chloride-contaminated concrete was nobler than that of chloride-free concrete. and corrosion current density of steel in concrete with chloride was smaller than without chloride. 2) Corrosion current density of steel in concrete adding inhibitor A and B was smaller than inhibitor-free concrete

Key Words : concrete, steel, corrosion behavior, inhibitor.

