

عنوان مقاله:

An Investigation on the Anode Distribution in Cathodic Protection by Impressed Current on the Corrosion of Reinforced Concrete

محل انتشار:

مجله علوم و مهندسی خوردگی، دوره 9، شماره 37 (سال: 1399)

تعداد صفحات اصل مقاله: 14

نویسندگان:

اسماعیل جعفری - دانشگاه آزاد اسلامی شیراز

رامین ایازی - دانشگاه آزاد اسلامی شیراز

خلاصه مقاله:

In this paper, the effect of anode arrangement is investigated on the applied current density in the cathodic protection system of reinforced concrete. For this purpose, two different arrangements of anodes with different number of anodes have been studied. The results indicate that the location of anodes relative to the rods in concrete has a significant effect on the current density. And the amount of applied current density for corrosion protection is a function of the anodes location. In the case where the anodes are parallel to the rods, a lower applied current density is required, and if the anodes are vertical to the rods, a higher current density is required for protection

کلمات کلیدی:

Cathodic protection, Reinforced concrete, Current density, Impressed current
حفاظت کاتدی، بتن مسلح، چگالی جریان، جریان اعمالی.

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1831742>

