عنوان فارسی مقاله:
بررسی خوش مکانیکی اتصالات غیرمشابه خال جوشی فولادهای ضد زنگ و گالوانیزه

عنوان انگلیسی مقاله:
Exploring the Mechanical Properties of Spot Welded Dissimilar Joints for Stainless and Galvanized Steels

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک نمایید.
Conclusions

The mechanical properties of the dis-similar metal joints were studied. It was found that for the dis-similar metal joints, the failure load of the cross-tension specimens was about 72-78\% of that of the lap shear specimens and the failure type was plug failure in both tests. The lap shear strength of the dis-similar metal joints depended on the strength and thickness of the nonstainless steel.

In the case of the spot welded joints, the different strength levels of the base materials did not have an effect on the corrosion fatigue strength, but the sheet thickness had a significant effect. The fatigue strength of a spot welded structure increases with the increasing sheet thickness. The fatigue strength of the dissimilar metal joints was found to be between the fatigue strength of the nonstainless steel and the stainless steel. Electro-coating of the test specimens did not have a significant effect on the corrosion fatigue properties of spot welded joints.