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Electrochemical reactions under rust are

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not any more simple reactions including metal anodic dissolution and oxygen cathodic reduction but complex corrosion process composed of multiple sub-processes involving rust redox reactions, mass transportation through rust, electric charges movement between interfaces, microorganism propagation in porous rust and some

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other complex corrosion processes , , ,  
which make metrical corrosion rates  
different between electrochemical and  
weight ...

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In addition, the electrochemical  
techniques available in the corrosion

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laboratory can be used to determine the following: 1) the corrosion rate in the metal/electrolyte system of interest, 2) the diffusion kinetics of ions in the vicinity of the corrosion processes, and 3) the quality of protective coatings.

**Corrosion and Electrochemistry -  
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In recent years the particular significance of Materials Science and Technology has been generally accepted in the industrial countries. The use of materials in different applications is limited due to their natural tendency to react with their environment, i.e. corrosion. Since corrosion is typically an electrochemical phenomenon, different

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electrochemical methods form the  
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Electrochemical techniques, namely alternating current (AC) and direct current (DC) applied potentials, are widely applied for the study of the corrosion behavior of weldments. Electrochemical impedance

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The corrosion science is a complex subject that is not well defined, and still

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(1975) Critical analysis of some electrochemical techniques including polarization resistance, for the study of zinc coating performance in near neutral chloride solutions. Corrosion Science 15:1, 47-56. Online publication date:

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