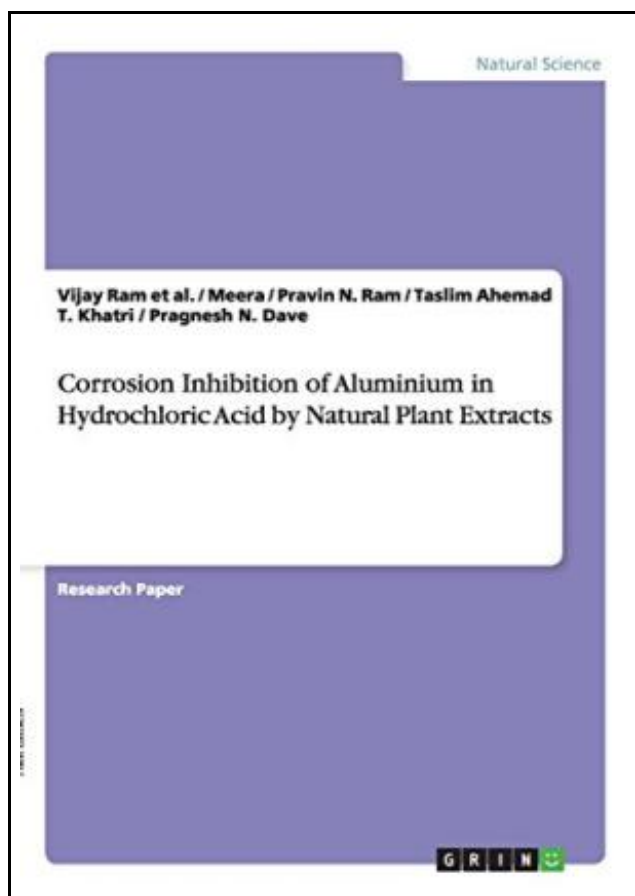


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GRIN Verlag GmbH Sep 2014, 2014. Taschenbuch. Book Condition: Neu. 211x151x6 mm. Neuware - Research Paper from the year 2014 in the subject Chemistry - General, grade: 3, , course: MSc, language: English, abstract: Aluminium, being a highly reactive metal, corrodes rapidly in acidic (pH 6) and alkaline (pH 12.5) media. Hence it has to be protected when it is likely to come in contact with such solutions, e.g., during cleaning or acid pickling. One method of protection is the addition of inhibitor to the corroding medium. In the present work, ethanol extract of *Azadirachta indica* and *Murraya koenigii* leaves have been investigated as corrosion inhibitor for aluminium in aqueous hydrochloric acid. The corrosion of Aluminium in plain hydrochloric acid, as well as inhibited, is found to increase with a rise in temperature. Thus in uninhibited 0.5 M HCl the loss in weight due to corrosion for an exposure period of 60 min increases from 736 mg/dm² at 35°C to 852, 922, and 958 mg/dm² at 45°C, 55°C and 65°C respectively. In inhibited 0.5 M HCl containing 1.30% of *Azadirachta indica*, it was observed that at 35°C and for an exposure period of 60 min *Azadirachta indica* confer 100.0% protection. In *A. indica*, it is observed that the compound at 1.30% concentration show an efficiency 100.0% at 35°C. As the temperature is increased the efficiency decreases. In the case of *A. indica*, the efficiency decreases slightly and is found to be 72.96% at 65°C. It appears that in the case of *Azadirachta indica*, the adsorption is of physisorption type which decreases with a rise in temperature. The surface morphology of the Al samples in the absence and presence of *A. indica* and *M. koenigii* leaves extract was investigated after weight loss using SEM technique. The badly damaged surface obtained when the metal was...



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