



Effect of plants on corrosion rate on mild steel in acidic medium

By Bawa Bamaiyi

LAP Lambert Academic Publishing Mrz 2016, 2016. Taschenbuch. Condition: Neu. Neuware - Of all metallurgical problems that face civilization, only a few can be economically more important than the prevention of metallic corrosion. Environmental attack on metal produces a destructive effect on their physical and mechanical properties which consequently, contributes to economic loses, impairs the safety of operating equipment and invariably depletes our metal reserves. Steel corrosion is a costly problem in fact the annual direct cost of metallic corrosion worldwide is \$2.2 trillion USD. North America is a large contributor to this annual cost, as the annual cost of corrosion in the US is \$432 billion USD the equivalent of 3.0% of the gross domestic product (GDP). Though steel corrosion whether in atmospheric soil, water or other exposures is a natural phenomenon, estimate shows 25-30% could be stymied if proper corrosion methods are employed. This work studies the effect of locust bean and banana sap on corrosion rate on mild steel in acidic medium. This result is useful to the manufacturing industries and potential researcher studies corrosion and its effect. 60 pp. Englisch.



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