DESCRIPTION

Occurrence of corrosion and its practical control is an area of study covering a wide range of scientific knowledge. *Corrosion Science* provides a medium for the communication of ideas, developments and research in all aspects of this field and includes both metallic and non-metallic corrosion. The scope of this international journal is very extensive. Published papers range from the highly theoretical to the essentially practical and cover such areas as high temperature oxidation, passivity, anodic oxidation, biochemical corrosion, stress corrosion cracking, and mechanisms and methods of corrosion control. This journal publishes original papers and critical reviews in the fields of pure and applied corrosion, the degradation of materials, and both surface science and engineering. It forms an important link between metallurgists, materials scientists and all investigators of corrosion and degradation phenomena.

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Mössbauer spectroscopy
polarization
potentiostatic
Raman spectroscopy
RBS
RDA/RCE X
scratching electrode
SEM
SIMS
STEM
TEM
thermal cycling
weight loss
XPS
XRD
X-ray diffraction
C. PROPERTIES AND PHENOMENA

acid corrosion
acid inhibition
alkaline corrosion
amorphous structures
anodic dissolution
anodic films
anodic protection
atmospheric corrosion
carburization
cathodic protection
chlorination
corrosion fatigue
crevise corrosion
de-alloying
effects of strain
electrodeposited films
exfoliation corrosion
fretting corrosion
hardening
high temperature corrosion
hot corrosion
hydrogen absorption
hydrogen embrittlement
hydrogen overpotential
hydrogen permeation
inclusion
interfaces
intergranular corrosion
internal oxidation
kinetic parameters
LME
microbiological corrosion
negative difference effect
neutral inhibition
oxidation
oxide coatings
oxygen reduction
paint coatings
passive films
passivity
pitting corrosion
polymer coatings
potential parameters
Pourbaix diagram
reactor conditions
repassivation
rust
segregation
selective oxidation
stress corrosion
sulphidation
sulphide cracking
thermodynamic diagrams
transpassivity
welding

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