

AMR-19 CORROSION AND DEGRADATION OF MATERIALS

1. Thermodynamics and kinetics of materials corrosion.,
2. Oxidation, common forms of corrosion, stress corrosion, corrosion fatigue,
3. Radiation damages, corrosion effects, corrosion susceptibility tests,
4. Electrochemical measurements of corrosion rates,
5. Corrosion prevention and economic consideration, high temperature oxidation and sulphidation,
6. Corrosion case history, physical aging in polymers,
7. Degradation of polymers and their effect on mechanical properties

Reference Book:

1. Corrosion, M. G. Fontana

