

MIME 512. CORROSION AND DEGRADATION OF MATERIALS.

Credits: 3

Offered by: Mining & Materials Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Electrochemical theory of metal corrosion, Evans Diagrams, corrosion rate controlling mechanisms, mixed corrodents, alloying effects, passivation. Discussion and analysis of the various forms of corrosion. Corrosion prevention methods. Oxidation of alloys-mechanisms and kinetics. Degradation of ceramics and polymers. Case studies.

- (3-1.5-4.5)
- Prerequisites: MIME 261 and MIME 352 or permission of instructor.
- Restriction: Not open to students who have taken MIME 412.

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