

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Metallurgy and Material Science - NOC:Aqueous Corrosion and its Control

Subject Co-ordinator - Prof. V. S. Raja

Co-ordinating Institute - IIT - Bombay

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to the course and corrosion implications
- Lecture 2 - Can we predict if a metal corrodes? - Part I
- Lecture 3 - Can we predict if a metal corrodes? - Part II
- Lecture 4 - Can we calculate the rate of corrosion
- Lecture 5 - Can we calculate the rate of corrosion
- Lecture 6 - Can we calculate the corrosion rate of metals
- Lecture 7 - Passivity (Continued...)
- Lecture 8 - DC polarisation experiments and their relation to mixed potential theory/Evans diagram
- Lecture 9 - Pourbaix diagram and electrochemical corrosion
- Lecture 10 - Forms of corrosion
- Lecture 11 - Forms of corrosion
- Lecture 12 - Forms of corrosion
- Lecture 13 - Forms of corrosion
- Lecture 14 - Forms of corrosion
- Lecture 15 - Forms of corrosion
- Lecture 16 - Forms of corrosion
- Lecture 17 - Forms of corrosion
- Lecture 18 - Forms of corrosion
- Lecture 19 - Forms of corrosion
- Lecture 20 - Forms of corrosion
- Lecture 21 - Forms of corrosion
- Lecture 22 - Forms of corrosion
- Lecture 23 - Forms of corrosion
- Lecture 24 - Forms of corrosion
- Lecture 25 - Forms of corrosion
- Lecture 26 - Forms of corrosion
- Lecture 27 - Forms of corrosion
- Lecture 28 - Forms of corrosion
- Lecture 29 - Forms of corrosion

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Lecture 30 - Forms of corrosion  
Lecture 31 - Forms of corrosion  
Lecture 32 - Forms of corrosion  
Lecture 33 - Forms of corrosion  
Lecture 34 - Effective corrosion management