

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

NPTEL Video Course - Metallurgy and Material Science - NOC:Welding Science and Technology (In Tamil)

Subject Co-ordinator - Prof. Murugaiyan Amirthalingam

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction and learning objectives
- Lecture 2 - Definition of welding and necessity for welding
- Lecture 3 - Classification of welding processes
- Lecture 4 - Introduction to welding arc
- Lecture 5 - Types of gas discharges
- Lecture 6 - Characteristics of a welding arc
- Lecture 7 - Role of polarity in a welding arc
- Lecture 8 - Anode and cathode fall zones
- Lecture 9 - Arc column - Part I
- Lecture 10 - Arc column - Part II
- Lecture 11 - Arc column - Part III
- Lecture 12 - Characteristics of arc welding processes
- Lecture 13 - Introduction to arc ignition and gas tungsten arc welding
- Lecture 14 - Gas tungsten arc welding - I
- Lecture 15 - Shielding gases used for arc welding
- Lecture 16 - Plasma welding
- Lecture 17 - Consumable welding processes - I
- Lecture 18 - Consumable welding processes - II
- Lecture 19 - Fundamentals of resistance welding
- Lecture 20 - Resistance spot welding - Part I
- Lecture 21 - Resistance spot welding - Part II
- Lecture 22 - Other resistance welding processes
- Lecture 23 - High energy beam welding processes - Laser beam welding
- Lecture 24 - High energy beam welding processes - Electron beam welding
- Lecture 25 - Other welding processes - Part I
- Lecture 26 - Other welding processes - Part II

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