

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

NPTEL Video Course - Metallurgy and Material Science - Non-ferrous Extractive Metallurgy

Subject Co-ordinator - Prof. H.S. Ray, Mr. L. Pugazhenthay

Co-ordinating Institute - IIT - Kharagpur | India Lead Zine Development Association

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

- Lecture 1 - Brief History of Non-ferrous Metal
- Lecture 2 - Brief History of Non-ferrous Metal (Continued...)
- Lecture 3 - Sources of Non-ferrous Metal
- Lecture 4 - Mineral Beneficiation Techniques
- Lecture 5 - General Methods of Metal Extraction
- Lecture 6 - Principles of Carbon Reduction
- Lecture 7 - Principles of Hydrometallurgy
- Lecture 8 - Principles of Electrometallurgy
- Lecture 9 - Electrometallurgy (Continued...) and Temkin Model for Fused Salts
- Lecture 10 - Refining of Metals - Chemical Methods
- Lecture 11 - Refining of Metals - Physical Methods
- Lecture 12 - Concluding part of Module - 4
- Lecture 13 - Concluding part of Module - 4 (Continued...)
- Lecture 14 - Module - 5 Extraction of Metals from Oxides, Extraction of Magnesium
- Lecture 15 - Extraction Aluminium
- Lecture 16 - Extraction Aluminium (Continued...1)
- Lecture 17 - Extraction Aluminium (Continued...2)
- Lecture 18 - Extraction Aluminium (Continued...3)
- Lecture 19 - Extraction of Tin
- Lecture 20 - Extraction of Ferro Alloys
- Lecture 21 - Module - 6 Extraction of Metals from Sulphides Extraction of Copper
- Lecture 22 - Extraction of Copper (Continued...)
- Lecture 23 - Hydrometallurgy of Copper
- Lecture 24 - Extraction of Lead
- Lecture 25 - Extraction of Zinc-Imperial Smelting Process
- Lecture 26 - Module - 7 Extraction of metals from halides, Extraction of reactor metals
- Lecture 27 - Extraction of reactor metals (Continued...1)
- Lecture 28 - Extraction of reactor metals (Continued...2)
- Lecture 29 - Extraction of Titanium

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- Lecture 30 - Extraction of Precious Metals
- Lecture 31 - Production of Secondary Metals and Treatment of Wastes
- Lecture 32 - Energy and Environment Related Issues in Nonferrous Metals Production
- Lecture 33 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...1)
- Lecture 34 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...2)
- Lecture 35 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...3)
- Lecture 36 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...4)
- Lecture 37 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...5)
- Lecture 38 - Energy and Environment Related Issues in Nonferrous Metals Production (Continued...6)
- Lecture 39 - Nonferrous Metals in India - Unleashing its true potential
- Lecture 40 - Nonferrous Metals in India - Unleashing its true potential (Continued...)
- Lecture 41 - Review and Summary
- Lecture 42 - Review and Summary (Continued...1)
- Lecture 43 - Review and Summary (Continued...2)