

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

NPTEL Video Course - Chemistry and Biochemistry - NOC:Industrial Inorganic Chemistry

Subject Co-ordinator - Prof. Debashis Ray

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Importance of chemical industry, chemicals from materials
- Lecture 3 - Bulk and commodity chemicals
- Lecture 4 - Fine and speciality chemicals
- Lecture 5 - Water
- Lecture 6 - Hydrogen
- Lecture 7 - Inorganic peroxide compounds
- Lecture 8 - Nitrogen compounds
- Lecture 9 - Chloramine and Hydroxylamine
- Lecture 10 - Nitric acid, Ostwald process and uses
- Lecture 11 - Phosphorus and its components
- Lecture 12 - Phosphoric acid salts
- Lecture 13 - Tetrapotassium diphosphate preparation
- Lecture 14 - Hydroxy apatite
- Lecture 15 - P₄S₁₀ and phosphide preparation
- Lecture 16 - Sulfur and copper (I) phosphide
- Lecture 17 - Sulfur compounds and sulfur from H₂S and SO₂
- Lecture 18 - Sulfuric acid, catalyst and S₂Cl₂, applications
- Lecture 19 - Sulfur dichloride, thionyl chloride
- Lecture 20 - Thiosulfates and dithionite
- Lecture 21 - Sodium hydroxyl methanesulfinatate and hydrogen sulfide
- Lecture 22 - Halogen and halogen compounds
- Lecture 23 - Fluorine and inorganic fluorides
- Lecture 24 - Hydrogen fluoride and aluminum fluoride
- Lecture 25 - Cryolite and other industrially important fluoride salts
- Lecture 26 - Electrochemical fluorination, sulfonyl fluorides
- Lecture 27 - Chloralkali electrolysis
- Lecture 28 - Ion conduction membrane in electrolysis
- Lecture 29 - Hydrochloric acid manufacture

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- Lecture 30 - Bromine and bromine compounds
- Lecture 31 - Hydrogen bromide and alkali bromates
- Lecture 32 - Iodine and iodine compounds
- Lecture 33 - Mineral fertilizers
- Lecture 34 - Nitrogen fertilizer and Urea
- Lecture 35 - Potassium fertilizer
- Lecture 36 - Metals and their compounds
- Lecture 37 - Sodium and its compounds
- Lecture 38 - Potassium and its compounds
- Lecture 39 - Magnesium and its compounds
- Lecture 40 - Calcium and its compounds
- Lecture 41 - Barium and its compounds
- Lecture 42 - Chromium and its compounds
- Lecture 43 - Manganese and its industrially important compounds
- Lecture 44 - Silicon and its compounds
- Lecture 45 - Organosilicon compounds, organoalkoxysilanes
- Lecture 46 - Organomercurio silanes and silicones
- Lecture 47 - Silicone rubber
- Lecture 48 - Inorganic solids
- Lecture 49 - Zeolites
- Lecture 50 - Inorganic Fibres
- Lecture 51 - Glass fibre production and construction materials
- Lecture 52 - Ceramics and its manufacturing processes
- Lecture 53 - Specialty ceramic products
- Lecture 54 - Ferrites and porcelain enamel
- Lecture 55 - Layers of enamelling
- Lecture 56 - Carbon modifications
- Lecture 57 - Activated carbon
- Lecture 58 - Metallic hard materials
- Lecture 59 - Fillers and inorganic pigments
- Lecture 60 - Oxide pigments, luminescent pigments, corrosion protection pigments, magnetic pigments