NPTEL Video Course - Physics - NOC:Introduction to Atmospheric and Space Sciences

Subject Co-ordinator - Prof. M V Sunil Krishna

Co-ordinating Institute - IIT - Roorkee

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

Lecture 30 - Cloud Morphology
Lecture 31 - Secondary Cloud Classification and Fog
Lecture 32 - Atmospheric Stability
Lecture 33 - Atmospheric Stability Conditions
Lecture 34 - Stable Unstable and Neutral Atmosphere
Lecture 35 - Cloud Seeding and Precipitation
Lecture 36 - Measuring Precipitation
Lecture 37 - Droplet Growth and Curvature Effect
Lecture 38 - Droplet Growth and Solute Effect
Lecture 39 - Radial Growth of Droplets by Diffusion
Lecture 40 - Radial Growth of Droplets by Diffusion (Continued...)
Lecture 41 - Ionospheric Layers and Photochemistry
Lecture 42 - Ionization Processes
Lecture 43 - Ionospheric Chemical Reactions and Layers
Lecture 44 - Chapman's Theory of Layer Production
Lecture 45 - Chapman's Theory of Layer Production (Continued...)
Lecture 46 - Chapman's Alpha Layer
Lecture 47 - Hydrogen in Ionosphere
Lecture 48 - Debye's Shielding
Lecture 49 - Debye's Shielding and Debye's Potential
Lecture 50 - Debye's Potential (Continued...)
Lecture 51 - Particle Motion in Uniform Electric Field
Lecture 52 - Particle Motion in Uniform Magnetic Field
Lecture 53 - Particle Motion in Uniform Magnetic Field and Guiding Center
Lecture 54 - Particle Motion in Uniform Electric and Magnetic Fields
Lecture 55 - Gradient Magnetic Field
Lecture 56 - Gradient Drift and Curvature Drift
Lecture 57 - Vacuum Drift and Planetary Ring Current
Lecture 58 - Magnetic Mirroring
Lecture 59 - Magnetic Mirroring and Loss Cone
Lecture 60 - Airglow and Aurora