

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

NPTEL Video Course - Physics - Astrophysics and Cosmology

Subject Co-ordinator - Prof. S. Bharadwaj

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Keplers Law
Lecture 3 - The Solar System
Lecture 4 - The Solar System (Continued...)
Lecture 5 - Binary Systems
Lecture 6 - Binary Systems (Continued...)
Lecture 7 - Tidal Forces and the Earth Moon System
Lecture 8 - Fluid Mechanics
Lecture 9 - Hydrostatics and the Solar Wind
Lecture 10 - Radiative Transfer
Lecture 11 - Radiative Transfer (Continued...)
Lecture 12 - Thermal Radiation
Lecture 13 - Thermal Radiation and the Sun
Lecture 14 - Virial Theorem and Its Application to Stars
Lecture 15 - Stars
Lecture 16 - Stellar Physics - I
Lecture 17 - Stellar Physics - II
Lecture 18 - Stellar Physics - III
Lecture 19 - Stellar Physics - IV
Lecture 20 - Stellar Physics - V
Lecture 21 - White Dwarfs
Lecture 22 - White Dwarfs and Neutron Stars
Lecture 23 - Galaxies
Lecture 24 - Galaxies and the Expanding Universe
Lecture 25 - The Expanding Universe
Lecture 26 - Dynamics of the Expanding Universe
Lecture 27 - Dynamics of the Expanding Universe (Continued...)
Lecture 28 - The Expanding Universe and the Cosmological Metric
Lecture 29 - The Cosmological Space - Time

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- Lecture 30 - Distances
- Lecture 31 - Distances (Continued...)
- Lecture 32 - Distances and the Hubble Parameter
- Lecture 33 - Distances, the Hubble Parameter and Dark Energy (Continued...)
- Lecture 34 - CMBR and Thermal History
- Lecture 35 - CMBR and Thermal History (Continued...1)
- Lecture 36 - CMBR and Thermal History (Continued...2)
- Lecture 37 - Thermal History, Expansion Rate and Neutrino Mass
- Lecture 38 - Thermal History
- Lecture 39 - Big Bang Nucleosynthesis