

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

NPTEL Video Course - Aerospace Engineering - NOC:Space Flight Mechanics

Subject Co-ordinator - Dr. Manoranjan Sinha

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Conic Section
Lecture 2 - Conic Section (Continued...)
Lecture 3 - Conic Section (Continued...)
Lecture 4 - Central Force Motion
Lecture 5 - Gravitational Central Force Motion
Lecture 6 - Gravitational Central Force Motion (Continued...)
Lecture 7 - Gravitational Central Force Motion (Continued...)
Lecture 8 - 2-Body Problem
Lecture 9 - 2-Particle System Motion Under Mutual Gravitational Attraction
Lecture 10 - 2-Particle Body Problem
Lecture 11 - 2-Particle Body System
Lecture 12 - Classical Orbital Elements / Parameters
Lecture 13 - Classical Orbital Elements / Parameters (Continued...)
Lecture 14 - Classical Orbital Elements / Parameters (Continued...)
Lecture 15 - Classical Orbital Elements and Its Inverse Problems
Lecture 16 - Inverse Problem of Orbit Determination (Classical Orbital Elements)
Lecture 17 - Problem Solving on 2-Body Problem Related to Orbit and Orbital Elements
Lecture 18 - Problem Related to Orbital Elements
Lecture 19 - Kepler's Equation / Kepler's Problem
Lecture 20 - Kepler's Problem (Continued...)
Lecture 21 - Kepler's Problem (Continued...)
Lecture 22 - Kepler's Equation
Lecture 23 - Kepler's Equation (Continued...)
Lecture 24 - Kepler's Equation (Continued...)
Lecture 25 - Kepler's Equation (Continued...)
Lecture 26 - Kepler's Equation (Continued...)
Lecture 27 - Kepler's Equation (Continued...)
Lecture 28 - Kepler's Equation (Continued...)
Lecture 29 - 3-Body Problem

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Lecture 30 - 3-Body Problem (Continued...)
Lecture 31 - 3-Body Problem (Continued...)
Lecture 32 - 3-Body Problem (Continued...)
Lecture 33 - 3-Body Problem (Continued...)
Lecture 34 - Restricted 3-Body Problem
Lecture 35 - Restricted 3-Body Problem (Continued...)
Lecture 36 - Restricted 3-Body Problem (Continued...)
Lecture 37 - Restricted 3-Body Problem (Continued...)
Lecture 38 - Restricted 3-Body Problem (Continued...)
Lecture 39 - Restricted 3-Body Problem (Continued...)
Lecture 40 - Restricted 3-Body Problem (Continued...)
Lecture 41 - Restricted 3-Body Problem (Continued...)
Lecture 42 - Restricted 3-Body Problem (Continued...)
Lecture 43 - Restricted 3-Body Problem (Continued...)
Lecture 44 - Restricted 3-Body Problem (Continued...)
Lecture 45 - Restricted 3-Body Problem (Continued...)
Lecture 46 - Restricted 3-Body Problem (Continued...)
Lecture 47 - General Perturbation Theory
Lecture 48 - General Perturbation Theory (Continued...)
Lecture 49 - General Perturbation Theory (Continued...)
Lecture 50 - General Perturbation Theory (Continued...)
Lecture 51 - General Perturbation Theory (Continued...)
Lecture 52 - General Orbit Perturbation Theory
Lecture 53 - General Orbit Perturbation Theory (Continued...)
Lecture 54 - General Orbit Perturbation Theory (Continued...)
Lecture 55 - General Orbit Perturbation Theory (Continued...)
Lecture 56 - General Orbit Perturbation Theory (Continued...)
Lecture 57 - General Orbit Perturbation Theory (Continued...)
Lecture 58 - General Orbit Perturbation Theory (Continued...)
Lecture 59 - General Orbit Perturbation Theory (Continued...)
Lecture 60 - General Orbit Perturbation Theory (Continued...)
Lecture 61 - General Orbit Perturbation Theory (Continued...)
Lecture 62 - General Orbit Perturbation Theory (Continued...)
Lecture 63 - General Orbit Perturbation Theory (Continued...)
Lecture 64 - General Orbit Perturbation Theory (Continued...)
Lecture 65 - General Orbit Perturbation Theory (Continued...)
Lecture 66 - General Orbit Perturbation Theory (Continued...)
Lecture 67 - General Orbit Perturbation Theory (Continued...)
Lecture 68 - Orbit Determination

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- Lecture 69 - Orbit Determination (Continued...)
- Lecture 70 - Orbit Determination (Continued...)
- Lecture 71 - Orbit Determination (Continued...)
- Lecture 72 - Transformation from Celestial to Earth Fixed Reference Frame
- Lecture 73 - Time
- Lecture 74 - Time (Continued...)
- Lecture 75 - Orbit Determination
- Lecture 76 - Orbit Determination (Continued...)
- Lecture 77 - Orbit Determination (Continued...)
- Lecture 78 - Orbit Determination (Continued...)
- Lecture 79 - Trajectory Transfer
- Lecture 80 - Trajectory Transfer (Continued...)
- Lecture 81 - Trajectory Transfer (Continued...)
- Lecture 82 - Trajectory Transfer (Continued...)
- Lecture 83 - Trajectory Transfer (Continued...)
- Lecture 84 - Trajectory Transfer (Continued...)
- Lecture 85 - Trajectory Transfer (Continued...)
- Lecture 86 - Trajectory Transfer (Continued...)
- Lecture 87 - Interplanetary Transfer
- Lecture 88 - Interplanetary Transfer (Continued...)
- Lecture 89 - Interplanetary Transfer (Continued...)
- Lecture 90 - Patched Conic Section Method for Interplanetary Transfer
- Lecture 91 - Interplanetary Mission
- Lecture 92 - Interplanetary Mission (Continued...)
- Lecture 93 - Interception in Coplanar Orbit
- Lecture 94 - Interception in Coplanar Orbit (Continued...)
- Lecture 95 - Interception in non-coplanar Orbit
- Lecture 96 - Interception in non-coplanar Orbit (Continued...)
- Lecture 97 - Interception in non-coplanar Orbit (Continued...)
- Lecture 98 - Non Coplanar Transfer
- Lecture 99 - Sphere of Influence