

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

NPTEL Video Course - Aerospace Engineering - NOC:Satellite Attitude Dynamics and Control

Subject Co-ordinator - Dr. Manoranjan Sinha

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Kinematics of Rotation
Lecture 2 - Kinematics of Rotation (Continued...)
Lecture 3 - Kinematics of Rotation (Continued...)
Lecture 4 - Kinematics of Rotation (Continued...)
Lecture 5 - Kinematics of Rotation (Continued...)
Lecture 6 - Kinematics of Rotation (Continued...)
Lecture 7 - Rotation
Lecture 8 - Rotation (Continued...)
Lecture 9 - Rotation (Continued...)
Lecture 10 - Rotation (Continued...)
Lecture 11 - Rotational Kinematics
Lecture 12 - Rotational Kinematics (Continued...)
Lecture 13 - Rotational Kinematics (Continued...)
Lecture 14 - Rotational Kinematics (Continued...)
Lecture 15 - Rotational Dynamics (Rigid Body Dynamics)
Lecture 16 - Rotational Dynamics (Rigid Body Dynamics) (Continued...)
Lecture 17 - Rotational Dynamics (Rigid Body Dynamics) (Continued...)
Lecture 18 - Rigid Body Dynamics
Lecture 19 - Rigid Body Dynamics (Continued...)
Lecture 20 - Rigid Body Dynamics (Continued...)
Lecture 21 - Rigid Body Dynamics (Continued...)
Lecture 22 - Rigid Body Dynamics (Continued...)
Lecture 23 - Rigid Body Dynamics (Continued...)
Lecture 24 - Rigid Body Dynamics (Continued...)
Lecture 25 - Rigid Body Dynamics (Continued...)
Lecture 26 - Stability of Torque Free Rotation
Lecture 27 - Stability of Torque Free Rotation (Continued...)
Lecture 28 - Gravity-gradient Satellite
Lecture 29 - Gravity-gradient Satellite (Continued...)

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- Lecture 30 - Gravity-gradient Satellite (Continued...)
- Lecture 31 - Gravity-gradient Satellite (Continued...)
- Lecture 32 - Gravity-gradient Satellite (Continued...)
- Lecture 33 - Gravity-gradient Satellite (Continued...)
- Lecture 34 - Gravity-gradient Satellite (Continued...)
- Lecture 35 - Gravity-gradient Satellite (Continued...)
- Lecture 36 - Gravity-gradient Satellite (Continued...)
- Lecture 37 - Gravity-gradient Satellite (Continued...)
- Lecture 38 - Spin Stabilization
- Lecture 39 - Spin Stabilization (Continued...)
- Lecture 40 - Spin Stabilization (Continued...)
- Lecture 41 - Spin Stabilization (Continued...)
- Lecture 42 - Spin Stabilization (Continued...)
- Lecture 43 - Control Moment Gyroscope
- Lecture 44 - Control Moment Gyroscope (Continued...)
- Lecture 45 - Gyroscope/Top Motion
- Lecture 46 - Gyroscope/Top Motion (Continued...)
- Lecture 47 - Gyroscopic Motion
- Lecture 48 - Gyroscopic Motion (Continued...)
- Lecture 49 - Reaction Wheel/Gyrostad
- Lecture 50 - Reaction Wheel/Gyrostad (Continued...)
- Lecture 51 - Gyrostad
- Lecture 52 - Gyrostad (Continued...)
- Lecture 53 - Gyrostad (Continued...)
- Lecture 54 - Gyrostad (Continued...)
- Lecture 55 - Control Moment Gyro
- Lecture 56 - Control Moment Gyro (Continued...)
- Lecture 57 - Control Moment Gyro (Continued...)
- Lecture 58 - Control Moment Gyro (Continued...)
- Lecture 59 - Satellite Dynamics with Control Moment Gyro
- Lecture 60 - Satellite Dynamics with Control Moment Gyro (Continued...)
- Lecture 61 - Satellite Dynamics with Control Moment Gyro (Continued...)
- Lecture 62 - Simplified Control Gyro for Satellite Attitude Control
- Lecture 63 - Satellite Attitude Control using Magnetic Torquer
- Lecture 64 - Satellite Attitude Control using Magnetic Torquer (Continued...)
- Lecture 65 - Satellite Attitude Control using Magnetic Torquer (Continued...)
- Lecture 66 - Satellite Attitude Control using Magnetic Torquer (Continued...)
- Lecture 67 - Satellite Attitude Control using Magnetic Torquer (Continued...)
- Lecture 68 - Satellite Attitude Control using Lorentz Force

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- Lecture 69 - Satellite Attitude Control using Thruster
- Lecture 70 - Atmospheric Drag on the Satellite
- Lecture 71 - Atmospheric Force and Moment on the Satellite
- Lecture 72 - Atmospheric Force and Moment on the Satellite (Continued...)
- Lecture 73 - Solar Radiation Force and Moment on the Satellite