

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

NPTEL Video Course - Aerospace Engineering - NOC:Combustion of Solid Fuels and Propellants

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Basic Principle of Rocket
- Lecture 2 - Basic Principle of Rocket (Continued...)
- Lecture 3 - Performance Parameters
- Lecture 4 - Performance Parameters (Continued...)
- Lecture 5 - Performance Parameters (Example problems)
- Lecture 6 - Solid Propellant Rocket - Brief Description
- Lecture 7 - Solid Propellants - Introduction
- Lecture 8 - Solid Propellants - Selection Criteria
- Lecture 9 - Solid Propellants - Selection Criteria (Continued...)
- Lecture 10 - Solid Propellants - Selection Criteria (Continued...)
- Lecture 11 - Propellants Ingredients (Continued...) and Classification of Solid Propellants
- Lecture 12 - Tutorial Problems
- Lecture 13 - Combustion of Solid Propellants - Introduction
- Lecture 14 - Combustion of Double-Base Propellants
- Lecture 15 - Combustion of Double-Base Propellants (Continued...)
- Lecture 16 - Combustion of Double-Base Propellants (Continued...)
- Lecture 17 - Evaluation of Burn Rate of DB Propellants
- Lecture 18 - Evaluation of Burn Rate of DB Propellants (Continued...)
- Lecture 19 - Combustion of Composite Propellants - Introduction
- Lecture 20 - Combustion of Composite Propellants (Continued...)
- Lecture 21 - Evaluation of Burn Rate of Composite Propellants
- Lecture 22 - Effect of Various Parameters on Burn Rate of Composite Propellants
- Lecture 23 - Effect of Transients, Vehicle Acceleration, Binder, Catalysts on Burning Rate of CP
- Lecture 24 - Effect of Catalysts on Burning Rate of CP (Continued...)
- Lecture 25 - Combustion of Nitra mine Composite Propellants
- Lecture 26 - Combustion of CMDB Propellants
- Lecture 27 - Choice of Pressure Index (n); Tutorial Problems
- Lecture 28 - Metal Combustion Classification-Introduction
- Lecture 29 - Metal Combustion Classification (Continued...)

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- Lecture 30 - Metal Combustion Classification (Continued...)
- Lecture 31 - Metal Particle Combustion Regimes
- Lecture 32 - Metal Particle Combustion Regimes (Continued...)
- Lecture 33 - Combustion Times for Diffusion and Kinetic Controlled Regimes
- Lecture 34 - Ignition and Combustion of Boron Particle
- Lecture 35 - Ignition and Combustion of Boron Particle (Continued...)
- Lecture 36 - Ignition and Combustion of Aluminum Particle, Recent Future Developments on Metal Fuels
- Lecture 37 - Erosive Burning in Solid Propellant Rockets - Introduction
- Lecture 38 - Methods for Determination of Erosive Function
- Lecture 39 - Methods for Determination of Erosive Function (Continued...)
- Lecture 40 - Erosive Burning Theories