

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

NPTEL Video Course - Ocean Engineering - Strength and Vibration of Marine Structures

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Ship Structures - I
- Lecture 2 - Introduction to Ship Structures - II
- Lecture 3 - Deflection of Structure Beam - I
- Lecture 4 - Deflection of Structure Beam - II
- Lecture 5 - Deflection of Structure Beam - III
- Lecture 6 - Deflection of Structure Beam - IV
- Lecture 7 - Statically Indeterminate Structures - I
- Lecture 8 - Statically Indeterminate Structures - II
- Lecture 9 - Statically Indeterminate Structures - III
- Lecture 10 - Statically Indeterminate Structures - IV
- Lecture 11 - Statically Indeterminate Structures - V
- Lecture 12 - Statically Indeterminate Structures - VI
- Lecture 13 - Longitudinal Bending of Hull Girder - I
- Lecture 14 - Longitudinal Bending of Hull Girder - II
- Lecture 15 - Longitudinal Bending of Hull Grider - III
- Lecture 16 - Theory of Column - I
- Lecture 17 - Theory of Column - II
- Lecture 18 - Theory of Column - III
- Lecture 19 - Theory of Column - IV
- Lecture 20 - Calculation of Momentum of Inertia of Main Section
- Lecture 21 - Bending in Inclined Condition
- Lecture 22 - Calculation of Deflection/Shear Stress
- Lecture 23 - Ship Vibration - I
- Lecture 24 - Ship Vibration - II
- Lecture 25 - Ship Vibration - III
- Lecture 26 - Ship Vibration - IV
- Lecture 27 - Ship Vibration - V
- Lecture 28 - Propeller Induced Vibration & Hull Frequency Estimation
- Lecture 29 - Hull Frequency Estimation from Basic Group (Continued...)

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- Lecture 30 - Analysis of Bulkhead - I
- Lecture 31 - Analysis of Bulkhead - II
- Lecture 32 - Stress Concentration/Structural Discontinuities
- Lecture 33 - Composite Construction
- Lecture 34 - Method of Plastic Analysis
- Lecture 35 - Calculation of Natural Frequency of Hull Girder
- Lecture 36 - Hull Resonance Diagram