

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

NPTEL Video Course - Ocean Engineering - Advanced Marine Structures

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction and Scope
- Lecture 2 - Fixed type structures
- Lecture 3 - Compliant type structures
- Lecture 4 - New generation marine structures
- Lecture 5 - Environmental loads - I
- Lecture 6 - Environmental loads - II
- Lecture 7 - Environmental loads - III
- Lecture 8 - Environmental loads - IV
- Lecture 9 - Other loads - I
- Lecture 10 - Other loads - II
- Lecture 11 - Ultimate load design principles - I
- Lecture 12 - Ultimate Limit State - I
- Lecture 13 - Ultimate Limit State - II
- Lecture 14 - Ultimate Limit State - III
- Lecture 15 - Partial safety factor
- Lecture 16 - Plastic design - I
- Lecture 17 - Plastic design - II
- Lecture 18 - Plastic design - III
- Lecture 19 - Plastic design - IV - Example problems - I
- Lecture 20 - Plastic analysis - Example problems - II
- Lecture 21 - Plastic analysis - Example problems - III
- Lecture 22 - Theories of failure - I
- Lecture 23 - Theories of failure - II
- Lecture 24 - Theories of failure - III
- Lecture 25 - Theories of failure - IV
- Lecture 26 - Shear centre - I
- Lecture 27 - Shear centre - II - Examples
- Lecture 28 - Plastic capacity of sections under combined loads - I
- Lecture 29 - Plastic capacity of sections under combined loads - II

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- Lecture 30 - Impact analysis- fundamentals - I
- Lecture 31 - Impact analysis- fundamentals - II
- Lecture 32 - Ultimate capacity of tubular joints
- Lecture 33 - Fluid structure interaction - I
- Lecture 34 - Fluid structure interaction - II
- Lecture 35 - Fluid induced vibration - I
- Lecture 36 - Fluid induced vibration - II
- Lecture 37 - Flow through perforated members - I
- Lecture 38 - Flow through perforated members - numerical studies - II
- Lecture 39 - Flow through perforated members - III - Analytical studies
- Lecture 40 - Introduction to Reliability - I
- Lecture 41 - Introduction to Reliability - II
- Lecture 42 - Introduction to Reliability - III
- Lecture 43 - Reliability framework in Marine structures
- Lecture 44 - Ultimate Limit state and Reliability approach - I
- Lecture 45 - Ultimate limit state and Reliability approach - II
- Lecture 46 - Levels of Reliability
- Lecture 47 - FOSM and AFOSM methods of Reliability
- Lecture 48 - Fracture and Fatigue
- Lecture 49 - Fatigue failure
- Lecture 50 - Fatigue loading and fatigue analysis
- Lecture 51 - Deterministic fatigue analysis
- Lecture 52 - Spectral fatigue analysis
- Lecture 53 - Stress concentration and fatigue analysis