

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

NPTEL Video Course - Ocean Engineering - NOC:Numerical Ship and Offshore Hydrodynamics

Subject Co-ordinator - Prof. Ranadev Datta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction  
Lecture 2 - Introduction to Seakeeping - 1  
Lecture 3 - Introduction to Seakeeping - 2  
Lecture 4 - Seakeeping - 3  
Lecture 5 - Seakeeping - 4  
Lecture 6 - Seakeeping - 5  
Lecture 7 - Seakeeping - 6  
Lecture 8 - Seakeeping - 7  
Lecture 9 - Hydrodynamics - 1  
Lecture 10 - Hydrodynamics - 2  
Lecture 11 - Wave and Wave Effect  
Lecture 12 - Waves - 2  
Lecture 13 - Waves - 3  
Lecture 14 - Introduction to BEM  
Lecture 15 - Introduction to BEM (Continued...)  
Lecture 16 - Lower Order Panel Method  
Lecture 17 - Lower Order Panel Method (Continued...)  
Lecture 18 - Case Study - Part 1  
Lecture 19 - Case Study - Part 2  
Lecture 20 - Demonstration of Panel Method Code  
Lecture 21 - Frequency Domain Panel Method  
Lecture 22 - Frequency Domain Panel Method (Continued...)  
Lecture 23 - Frequency Domain Panel Method (Continued...)  
Lecture 24 - Frequency Domain Panel Method (Continued...)  
Lecture 25 - Frequency Domain Panel Method (Continued...)  
Lecture 26 - Frequency Domain Panel Method (Continued...)  
Lecture 27 - Frequency Domain Panel Method (Continued...)  
Lecture 28 - Frequency Domain Panel Method (Continued...)  
Lecture 29 - Cummins Equation

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- Lecture 30 - IRF Based Solution - Part 1
- Lecture 31 - IRF Based Solution - Part 2
- Lecture 32 - Time Domain Solution Using IRF
- Lecture 33 - Time Domain Solution Using IRF (Continued...)
- Lecture 34 - Numerical Computation of IRF Based Method
- Lecture 35 - Numerical Computation of IRF Based Method (Continued...)
- Lecture 36 - Forward Speed Effects
- Lecture 37 - Strip Theory - Part 1
- Lecture 38 - Strip Theory - Part 2
- Lecture 39 - Strip Theory - Part 3
- Lecture 40 - Strip Theory - Part 4
- Lecture 41 - Strip Theory - Part 5
- Lecture 42 - Strip Theory - Part 6
- Lecture 43 - Strip Theory - Part 7
- Lecture 44 - Time Domain Panel Method
- Lecture 45 - Time Domain Panel Method (Continued...)
- Lecture 46 - Time Domain Panel Method (Continued...)
- Lecture 47 - Time Domain Panel Method (Continued...)
- Lecture 48 - Time Domain Panel Method (Continued...)
- Lecture 49 - Non Linear Time Domain Panel Method
- Lecture 50 - Non Linear Time Domain Panel Method (Continued...)
- Lecture 51 - Time Domain Panel Method - Code Development
- Lecture 52 - Ship Hydroelasticity
- Lecture 53 - Hydroelasticity
- Lecture 54 - Hydroelasticity (Continued...)
- Lecture 55 - Hydroelasticity (Continued...)
- Lecture 56 - Semi Analytic Method
- Lecture 57 - Semi Analytic Method (Continued...)
- Lecture 58 - Including Non linear Forces in BEM Code
- Lecture 59 - Including Non linear Forces in BEM Code (Continued...)
- Lecture 60 - Closer