

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

NPTEL Video Course - Ocean Engineering - NOC:Structural Health Monitoring

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to SHM - Part 1
- Lecture 2 - Introduction to SHM - Part 2
- Lecture 3 - Necessity of SHM - Part 1
- Lecture 4 - Necessity of SHM - Part 2
- Lecture 5 - Components of SHM - Part 1
- Lecture 6 - Components of SHM - Part 2
- Lecture 7 - Challenges in SHM - Part 1
- Lecture 8 - Challenges in SHM - Part 2
- Lecture 9 - Advantages of SHM - Part 1
- Lecture 10 - Advantages of SHM - Part 2
- Lecture 11 - Components of SHM process - Part 1
- Lecture 12 - Components of SHM process - Part 2
- Lecture 13 - SHM issues applied to concrete structures - Part 1
- Lecture 14 - SHM issues applied to concrete structures - Part 2
- Lecture 15 - Level of uncertainties in SHM process - Part 1
- Lecture 16 - Level of uncertainties in SHM process - Part 2
- Lecture 17 - Short term and long term Structural Health Monitoring (SHM) - Part 1
- Lecture 18 - Short term and long term Structural Health Monitoring (SHM) - Part 2
- Lecture 19 - Local and Global Health Monitoring
- Lecture 20 - Data Evaluation and Assessment
- Lecture 21 - Estimation of Structural Health i.e. Structural Health Monitoring (SHM)
- Lecture 22 - Estimation of Structural Health using Static SHM
- Lecture 23 - Structural Health Monitoring (SHM) Planning and Management - Part 1
- Lecture 24 - Structural Health Monitoring (SHM) Planning and Management - Part 2
- Lecture 25 - Vibration based health monitoring scheme - Part 1
- Lecture 26 - Vibration based health monitoring scheme - Part 2
- Lecture 27 - Structural Health monitoring methods
- Lecture 28 - Structural Health monitoring methods
- Lecture 29 - Damage identification using lumped mass and Element modal stiffness - Part 1

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- Lecture 30 - Damage identification using lumped mass and Element modal stiffness - Part 2
- Lecture 31 - Damage identification by visual Inspection method - Part 1
- Lecture 32 - Damage identification by visual Inspection method - Part 2
- Lecture 33 - Various vibration based method in SHM-1 - Part 1
- Lecture 34 - Various vibration based method in SHM-1 - Part 2
- Lecture 35 - Comparison of Damage Detection Method - II
- Lecture 36 - Damage Detection Method - II
- Lecture 37 - Structural Health Monitoring (SHM) and Statistical Pattern Recognition (SPR)
- Lecture 38 - Long term SHM (Structural Health Monitoring)
- Lecture 39 - Non-Destructive evaluation - I - Part 1
- Lecture 40 - Non-Destructive evaluation - I - Part 2
- Lecture 41 - Non-Destructive evaluation - II
- Lecture 42 - Non-Destructive evaluation - III
- Lecture 43 - Crack detection in Composites
- Lecture 44 - Various sensor technologies - Part 1
- Lecture 45 - Various sensor technologies - Part 2
- Lecture 46 - Fibre Optic sensors - Part 1
- Lecture 47 - Fibre Optic sensors - Part 2
- Lecture 48 - Smart sensing for SHM - Part 1
- Lecture 49 - Smart sensing for SHM - Part 2
- Lecture 50 - Sensing requirements in special structures
- Lecture 51 - The sensor requirements and Data acquisition - Part 1
- Lecture 52 - The sensor requirements and Data acquisition - Part 2
- Lecture 53 - Acquisition system and Networking for SHM - Part 1
- Lecture 54 - Acquisition system and Networking for SHM - Part 2
- Lecture 55 - Wireless Sensor Networking (WSN) - Part 1
- Lecture 56 - Wireless Sensor Networking (WSN) - Part 2
- Lecture 57 - SHM layout design of offshore structures
- Lecture 58 - Vibration Based damage detection
- Lecture 59 - SHM design - Part 1
- Lecture 60 - SHM design - Part 2
- Lecture 61 - Artificial Intelligence (AI) in structural health monitoring (SHM)
- Lecture 62 - Plausibility of errors in SHM
- Lecture 63 - Artificial Neural Network (ANN) in the SHM process.
- Lecture 64 - Damage detection
- Lecture 65 - Application of SHM in Infrastructure Engineering - Part 1
- Lecture 66 - Application of SHM in Infrastructure Engineering - Part 2
- Lecture 67 - Design of sensor layout for SHM - Part 1
- Lecture 68 - Design of sensor layout for SHM - Part 2

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- Lecture 69 - SHM applied to BSLRP - Part 1
- Lecture 70 - SHM applied to BSLRP - Part 2
- Lecture 71 - SHM design for BSLRP - Part 1
- Lecture 72 - SHM design for BSLRP - Part 2
- Lecture 73 - SHM design-2 for BSLRP - Part 1
- Lecture 74 - SHM design-2 for BSLRP - Part 2
- Lecture 75 - SHM design by experimental investigations for lab scale model of TLP-I - Part 1
- Lecture 76 - SHM design by experimental investigations for lab scale model of TLP-I - Part 2
- Lecture 77 - SHM design by experimental investigations for lab scale model of TLP-II - Part 1
- Lecture 78 - SHM design by experimental investigations for lab scale model of TLP-II - Part 2
- Lecture 79 - Structural Health Monitoring (SHM) of lab scale model of TLP-III - Part 1
- Lecture 80 - Structural Health Monitoring (SHM) of lab scale model of TLP-III - Part 2
- Lecture 81 - Structural Health Monitoring (SHM) of lab scale model of TLP-IV - Part 1
- Lecture 82 - Structural Health Monitoring (SHM) of lab scale model of TLP-IV - Part 2
- Lecture 83 - Future Scope of SHM - Part 1
- Lecture 84 - Future Scope of SHM - Part 2