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

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NPTEL Video Course - Ocean Engineering - NOC: Risk and Reliability of offshore structures
Subject Co-ordinator - Dr. Srinivasan Chandrasekaran
Co-ordinating Institute - IIT - Madras
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Uncertainties
Lecture 3 - Uncertainties - II
Lecture 4 - Probability and Plausibility
Lecture 5 - Rules of Probability
Lecture 6 - Plausible Reasoning - I
Lecture 7 - Plausible Reasoning - Quantitative rules
Lecture 8 - Quantitative Rules
Lecture 9 - Probability Distribution
Lecture 10 - Random Variables
Lecture 11 - Random Variables - II
Lecture 12 - Sampling Estimates
Lecture 13 - Modelling of Environmental Loads
Lecture 14 - Exercises - I
Lecture 15 - Introduction
Lecture 16 - Components of Reliability analysis
Lecture 17 - Levels of Reliability
Lecture 18 - Error Estimation
Lecture 19 - Reliability methods - I
Lecture 20 - Reliability methods - II
Lecture 21 - Reliability methods - III
Lecture 22 - Reliability methods - IV
Lecture 23 - System Reliability - I
Lecture 24 - System Reliability - II
Lecture 25 - System Reliability - III
Lecture 26 - Failure domains
Lecture 27 - Failure domains II
Lecture 28 - Application Problem - I
Lecture 29 - Application Problem - I (Continued...)
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Lecture 30 - Application Problem II
Lecture 31 - Application Problem II (Continued...)
Lecture 32 - Application Problem II (Continued...)
Lecture 33 - Risk and Reliability
Lecture 34 - Reliability analysis of structural systems
Lecture 35 - Codes on structural reliability
Lecture 36 - Variables in Reliability analysis
Lecture 37 - Mechanical models in Reliability analysis
Lecture 38 - Mechanical modes in Reliability analysis - II
Lecture 39 - Stochastic Process - I
Lecture 40 - Stochastic Process - II
Lecture 41 - Fatigue Reliability
Lecture 42 - Design SN curve
Lecture 43 - Simplified Fatigue Assessment
Lecture 44 - Short term fatigue damage
Lecture 45 - Behaviour of tubular joints
Lecture 46 - Tubular Joints - Experimental studies on T-Joints
Lecture 47 - Risk Assessment
Lecture 48 - Logical Risk analysis
Lecture 49 - Risk analysis of Mechanical Systems
Lecture 50 - FMEA II
Lecture 51 - Design FMEA for Offshore Triceratops
Lecture 52 - Fault Tree Analysis
Lecture 53 - Event Tree Analysis
Lecture 54 - Consequence Analysis
Lecture 55 - Risk Acceptability
Lecture 56 - Risk and Hazard assessment
Lecture 57 - Risk Picture
Lecture 58 - Risk Management
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