

**NPTEL course offered by IIT Madras
Computer methods of analysis of offshore structures**

Tutorial 11: Random vibration

Answer all questions

Total marks: 25

1. Explain a stationary and Ergodic process
2. Define Ergodic process, mathematically
3. Derive transfer function, connecting response spectrum and load spectrum
4. Show that transfer function is proportional to Dynamic amplification factor
5. Define white noise approximation

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