

NPTEL course offered by IIT Madras
Risk and Reliability of Offshore structures
Tutorial 8: Reliability analysis: Variables

Answer all questions

Total marks: 25

1. Explain how randomness of the variables are handled in reliability analysis?
2. Highlight the necessity of mechanical models in reliability analysis
3. Explain sensitivity of reliability index. List the factors that influence this sensitivity
4. Explain design point and its importance in reliability analysis
5. What are the complexities that arise while coupling mechanical model with reliability analysis?

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