

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

Tutorial 10: Offshore platforms: Dynamic analyses

Answer all questions

Total marks: 25

1. Explain Numerical integration scheme used to solve a dynamic system?
2. Derive and explain the terms in Equation of motion of Articulated Tower
3. Derive and explain the terms in equation of motion of Tension Leg Platform
4. Highlight advantages of Triceratops as applicable to deep water structural systems
5. Derive [K] of offshore triceratops from first principles

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