

Wednesday December 16th 2020

09:00 – 09:50 Introduction to geometrical nonlinearities and solution methods
09:50 – 10:00 break
10:00 – 10:45 Overview of tensor notation
10:45 – 11:00 break
11:00 – 12:00 Exercise simple truss structure
12:00 – 13:00 Kinematics

Thursday December 17th 2020

09:00 – 09:45 Stress tensors and balance laws
09:45 – 10:00 break
10:00 – 11:00 Objectivity, invariancy and corotational formulations
11:00 – 11:45 FEM for large deformations 1
11:45 – 12:00 break
12:00 – 12:45 FEM for large deformations 2

Friday December 18th 2020

09:00 – 10:00 Eulerian and ALE formulation, remapping
10:00 – 10:15 break
10:15 – 11:45 Matlab exercise FEM implementation
11:45 – 12:30 Plastic instability
12:30 – 13:30 break
13:30 – 14:00 Exam



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