

Lectures 2018:

- 1) Introduction to course. Chap 1: Notations and Cartesian tensors.
- 2) Chap 1: Notations and Cartesian tensors contd.
- 3) Chap 2: Strain tensor
- 4) Chap 3: Stress tensor
- 5) Chap 4: Hyper elasticity
- 6) Chap 4: Hyper elasticity
- 7) Chap 4: Hyper elasticity
- 8) Chap 4: Hyper elasticity. Chap 16: Nonlinear finite element method. Chap 17: Solution to nonlinear equilibrium equations
- 9) Chap 17: Solution to nonlinear equilibrium equations
- 10) Chap 8: Failure and initial yield criteria
- 11) Chap 8: Failure and initial yield criteria
- 12) Chap 9: Introduction to plasticity theory
- 13) Chap 9: Introduction to plasticity theory
- 14) Chap 10: General plasticity theory. Chap 17: Solution to nonlinear equilibrium equations. Chap 18: Integration of constitutive equations
- 15) Chap 15: Integration of constitutive equations
- 16) Chap 16: Solution of dynamic finite element equations. Chap 12: Common plasticity models