Elasticity: Links to additional reading

These links are optional reading, different sources. SL v1 07.11.2023
Goal is to get a wider overview and perspective!

1. More information about: General Continuum Mechanics
2. Vectors and Tensors as related to sections 1 and 2.
3. Cauchy Stress Tensor as related to Section 3, with States of stress and (in detail, beyond basic elasticity): Combined stress states
4. Deformation as related to Section 4, and
5. Material theory (self search ...), as related to Sections 5 and 6 ...
6. More general overview: Rheology
7. Plastic materials: Plasticity
8. Visco-Elasticity: Visco-elasticity
9. Material failure/damage Material Failure Theory
10. Failure/limit stress criteria for different materials Failure Criteria
11. Alternative course: Mechanics of Materials (by Dr. Calvin Rans)
12. **Books:**
    a **Elasticity – Theory, Applications, Numerics by: M. H. Sadd**
    This book covers the course, but has a slightly different nomenclature; it also reaches towards more advanced elasticity theory issues (not needed), so you also can use it in future for more advanced courses.
    Chapter 1 except 1.9
    Chapter 2 except 2.6 & 2.7
    Chapter 3 (traction- ⇒ stress-vector, spherical = isotropic) exc. 3.7
    Chapter 4 except 4.4
    Chapter 5 (could use all, don't need any ;))
    Chapter 6 only 6.1 & 6.5
    Chapter 7 only 7.1 & 7.2
    Chapter 9 (general reference, making the connection to real life) ... also take a look at: Tresca, von Mises, and general material behavior.
    b **Principles of Continuum Mechanics by J. N. Reddy**
    This book covers more than the course, but has a different nomenclature; it also contains much advanced continuum theory issues (not needed), so you also can use it in future for more advanced courses.
    Chapter 2 Very detailed introduction to vectors and tensors
    Chapter 3.1-3.2 Kinematics and strain, and 3.3.3
    Chapter 4.1-4.3 Stress-vector/-tensor, eigenvalues & transformation
    Chapter 5.3 Balance of momentum and angular momentum
    Chapter 6.1-6.2 Linear elastic material behavior, and 6.3 Fluids
    Chapter 7.4 Solid Mechanics
    c **Elasticity by J. R. Barber**
    This book covers the basic content, but very dense; use sections 1 and 2 and parts of 3 and 4; the nomenclature is somewhat different from what is shown during the lectures.
13. Dutch Reading Material (old script 095 - v.2007) Exercises Secs. 1.-5. Sec. 6: Materials