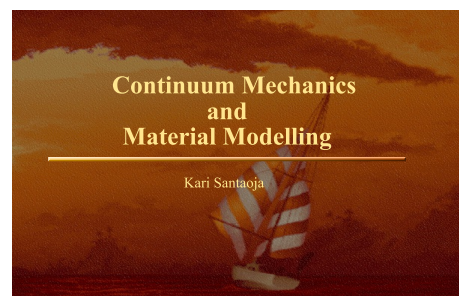# Continuum Mechanics and Material Modelling 2022
MEC-E8002 P (5 cr)

Errata

The present document gives a list of the errors in the course book "Lecture Notes on Continuum Thermodynamics; 2022".

January 24, 2022

Page or position	Incorrect notation	Correct notation
P. 60 below Eq. (166)	... , Definition (165) ...	..., Definition (166) ...
P. 65 below Eq. (196)	The equality of Derivatives $(192)_1$ and (196) proves Derivative $(195)_1$.	Expression (196) proves Derivative $(192)_1$.
P. 81 Figure 3.3	Figure (b) is not updated	The correct figure is at the end of this document.
P. 83 Eq. (3.10)	$\vec{v}(\vec{x}(t))$ 3 times $\underline{v}_s(\vec{x}(t))$	$\underline{v}(\vec{x}(t),t)$ 3 times $\underline{v}_s(\vec{x}(t),t)$
Eq. $(3.124)_1$	$...:= \frac{1}{2}\left[\vec{v}(\vec{x}(t))\overleftarrow{\vec{\nabla}}(\vec{x}) + \overleftarrow{\vec{\nabla}}(\vec{x})\vec{v}(\vec{x}(t))\right]$	$... = \frac{1}{2}\left[\vec{v}(\vec{x}(t),t)\overleftarrow{\vec{\nabla}}(\vec{x}) + \vec{\nabla}(\vec{x})\vec{v}(\vec{x}(t),t)\right]$
Eq. $(3.125)_1$	$... = \frac{1}{2}\left[\vec{v}(\vec{x}(t))\overleftarrow{\vec{\nabla}}(\vec{x}) - \vec{\nabla}(\vec{x})\vec{v}(\vec{x}(t))\right]$	$... = \frac{1}{2}\left[\vec{v}(\vec{x}(t),t)\overleftarrow{\vec{\nabla}}(\vec{x}) - \vec{\nabla}(\vec{x})\vec{v}(\vec{x}(t),t)\right]$
Figs 3.3, 4.9, 4.10 & 4.12	IG-CP configuration	IG-CtP configuration
4.13(b) and 4.15(b)	CS-IG configuration	IG-CtP configuration
P. 154 above Eq. (118) twice	current configuration $\underline{v}(t)$	current configuration $\underline{v}^{\text{b}}(t)$
P. 181 Figure 5.8(c)	IG-CP configuration	IG-CtP configuration
P. 185 Eq. (101), below Eq. (101) and Eq. (102)	$\vec{\underline{v}}(\underline{x}(t),t)$	$\underline{v}(\underline{x}(t),t)$
P. 188 Fig. 5.10(b)	IG-CP configuration	IG-CtP configuration
P. 189 below Eq. (116)	$v(t_2) = \text{V}^{\text{cv}}$	$\underline{v}(t_2) = \text{V}^{\text{cv}}$
P. 194 Fig. 5.12	IG-CP configuration	IG-CtP configuration
P. 382 first paragraph	Riedel and Mohrmann	Mohrmann and Riedel
P. 396 above Eq. (18)	(2.65)	(2.63)
p. 396 below Eq. (21)	Equations (20.13) and (20.14)	Equations (20.13)
P. 399 second and fourth lines after Eq. (36)	damage	damage strain
P. 400 above Eq. (42)	Equation (42) has the form of the constitutive equation aimed at, i.e.	The goal is to derive a constitutive equation having the form
P. 407 above Eq. (10)	(2.134)	(2.135)

P. 421 below Eq. (28)	Equation (25)	Equation (28)
P. 421 latter Eq. (28)	(28)	(28a)
P. 421 below Eq. (28a)	$(28)_2$	$(28a)_2$
P. 421 lest sentence before 27.5 Extended ...	... symmetric..	... symmetric.
P. 426 above Eq. (58)	... Expression $(44)_2$ ...	... Expression $(58)_2$ ...