

Reader Materials & Structures v21-12-2010

Errata v10-1-2011

This document contains a few corrections on the pdf-version of the reader on Materials & Structures posted on blackboard on December 21, 2010.

Page 112

Equation (7.2) should have been

$$F_p = \int_0^{\pi} \Delta p \sin \varphi R d\varphi = \Delta p R \int_0^{\pi} \sin \varphi d\varphi = \Delta p R [-\cos \varphi]_0^{\pi} = 2\Delta p R$$

And as a consequence, equation (7.3) should have been

$$2\sigma_{\text{circ}} t = 2\Delta p R$$

Page 138

The sentence

"For example, bone material has a higher specific stiffness compared to aluminium, but when the sheet stability is considered, the value for aluminium is higher."

should be

"For example, bone material has a lower specific stiffness compared to aluminium, but when the sheet stability is considered, the value for aluminium is lower."

Page 166

The thickness in the example should be 0.21 mm, instead of about 1 mm.

Page 167

The area should be $A = 660 \text{ mm}^2$ instead of 3142 mm^2 , and as a consequence the axial stress should be 22.3 MPa.

Page 195

The correct answers to question 4.4) are

- c) True
- d) False

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The correct answers to question 10.1) are

- a) 0.13 mm
- b) 22 MPa