Status: 2010-07-31

Revisions on
Development and Application of the Finite Element Method based on Matlab.

The following corrections must be considered:

- Page 12 - Eqn. (2.5): transposition of matrix

With respect to a general representation, it might be better to formulate

$$
\mathbf{T}^{*}=\mathbf{Q}^{\mathrm{T}} \cdot \mathbf{T} \cdot \mathbf{Q} .
$$

But be careful with same implementations, e.g. the ABAQUS internal eigenvalue solver SPRIND, which results in the transposed matrix structures as given before.

- Page 16 - Eqn. (2.20) and (2.21): '-'-sign and indices

$$
\begin{aligned}
I_{2}(\mathbf{C})=I_{2}(\mathbf{b}) & =\frac{1}{2}\left[(\operatorname{trace} \mathbf{C})^{2}-\operatorname{trace} \mathbf{C}^{2}\right] \\
& =\operatorname{trace} \mathbf{C}^{-1} \operatorname{det} \mathbf{C}=\lambda_{1}^{2} \lambda_{2}^{2}+\lambda_{1}^{2} \lambda_{3}^{2}+\lambda_{2}^{2} \lambda_{3}^{2}
\end{aligned}
$$

Please excuse all associated inadequacies. For further notes I am very grateful ! H. Baaser

