A CliffordBasic calculation of the strain portion of the stress tensor, and an explicit demonstration that it is symmetric.

```
<< CliffordBasic`;
$SetSignature = {3, 0};
ClearAll[eta, epsilon, e1, e2, e3, h1, h2, h3, f, t1, t2, t3, t]
f = e1e[1] + e2e[2] + e3e[3] +
  eta GeometricProduct[e[1, 2, 3], h1 e[1] + h2 e[2] + h3 e[3]]
t1 = Grade[epsilon GeometricProduct[f, e[1], Turn[f]] / 2, 1];
t2 = Grade[epsilonGeometricProduct[f, e[2], Turn[f]]/2,1];
t3 = Grade[epsilonGeometricProduct[f, e[3], Turn[f]]/2,1];
t = {{ScalarProduct[t1, e[1]], ScalarProduct[t1, e[2]], ScalarProduct[t1, e[3]]},
   {ScalarProduct[t2, e[1]], ScalarProduct[t2, e[2]], ScalarProduct[t2, e[3]]},
   {ScalarProduct[t3, e[1]], ScalarProduct[t3, e[2]], ScalarProduct[t3, e[3]]}};
(*t // FullForm*)
format = {epsilon \rightarrow \epsilon, eta \rightarrow \eta, e1 \rightarrow "E<sub>1</sub>",
   e2 \rightarrow "E_2", e3 \rightarrow "E_3", h1 \rightarrow "H_1", h2 \rightarrow "H_2", h3 \rightarrow "H_3"};
t /. format // MatrixForm
Transpose[t] - t
e1e[1] + e2e[2] + e3e[3] + eta(h3e[1, 2] - h2e[1, 3] + h1e[2, 3])
 \{\{0,0,0,0\},\{0,0,0\},\{0,0,0\}\}\}
```