

# Forschungszentrum Karlsruhe in der Helmholtz-Gemeinschaft

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## TENSILE TRIANGLES AS A "UNIVERSAL FORM" IN NATURE

**Notch Shape Optimization**

www.mattheck.de

**Light Weight Design**

Idle Corner

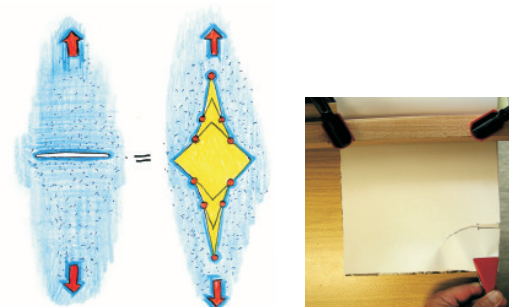


**THINKING TOOLS**

**SHEAR SQUARE**

**TENSILE TRIANGLES**

www.mattheck.de

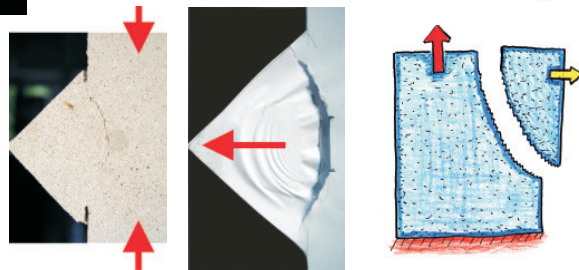


### Fluid Mechanics

$2R$ ,  $r/R$ ,  $v/v_{max}$ ,  $H$ ,  $z/H$ ,  $v/v_{max}$



### Fracture Mechanics



### Geomechanics

