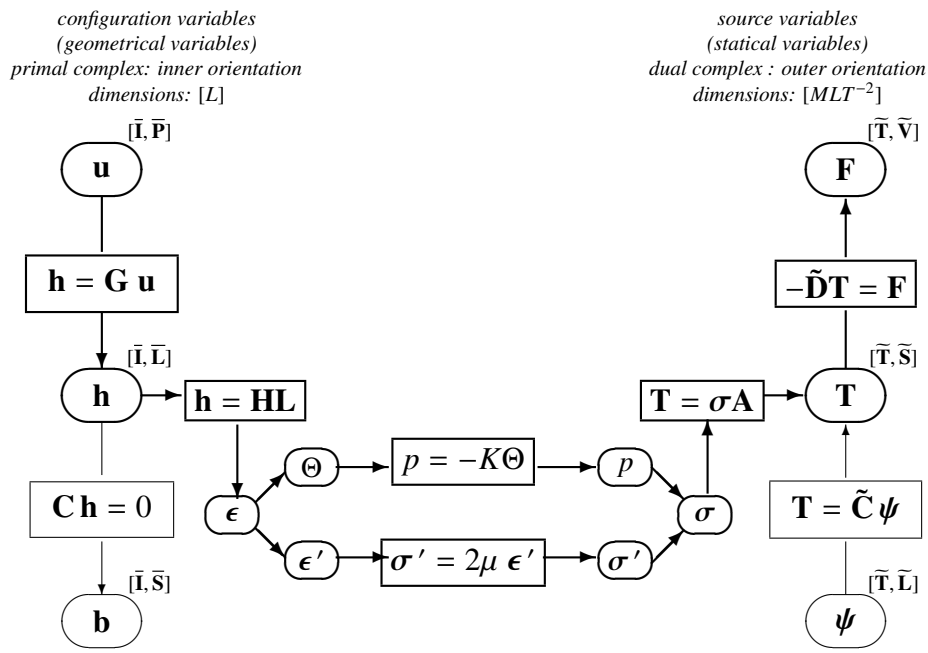
Table 1. Elastostatics: algebraic formulation.

Elastostatics

algebraic formulation

(small displacement theory)



$\mathbf{u}$	*displacement*	$\mathbf{F}$	*volume force*
$\mathbf{h}$	*relative displacement*	$\mathbf{T}$	*surface force*
$\mathbf{H}$	*displacement gradient*	$\mathbf{A}$	*area vector*
$\boldsymbol{\epsilon}$	*strain tensor*	$\boldsymbol{\sigma}$	*symmetric stress tensor*
Θ	*bulk strain*	p	*mechanical pressure*
$\boldsymbol{\epsilon}'$	*strain deviatoric*	$\boldsymbol{\sigma}'$	*stress deviatoric*
$\mathbf{b}$	*Burgers vector*	$\boldsymbol{\psi}$	*stress vector potential*
$\boldsymbol{\epsilon} = \dfrac{\boldsymbol{H} + \boldsymbol{H}^T}{2}$		$\boldsymbol{\sigma} = \dfrac{\boldsymbol{\tau} + \boldsymbol{\tau}^T}{2}$	

SMf1-3; http://discretephysics.dica.units.it