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The stress tensor is used to form the equilibrium equation, and the elasticity tensor is the keystone to form the tangent stiffness matrix that is used to solve the equilibrium equation. There are few existing literature or references providing a systematic approach to evaluate stress and elasticity tensors.

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Tensor calculus - Wikipedia

where H is the elasticity tensor, A the stress temperature tensor, K the conductivity tensor and $\pm[\rho]$ the density characterizing the material properties. The parameters of these tensors are the characteristics we look for in an identification problem. The infinitesimal strain tensor is defined by the equation : $\mathfrak{R}(U) = 1/2 (U + t U)$ (30)

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tive behaviour is completely determined by the elasticity tensor $S(c)$ and by the pseudo-potential of dissipation $\Phi = \Phi\sigma; c$. The later is supposed to be twice differentiable with respect to σ . c is the vector of the material parameters characterizing the material behaviour (Young's modulus, elasticity limit,:::). Time continuous expression

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