

Tables of Chapter 3

Elastic moduli (Lamé constants)	$I = m = 27 \text{ GPa}$
P and S wave velocities	$a = 5196 \text{ m/s}, b = 3000 \text{ m/s}$
Effective normal stress	$s_n^{eff} = 100 \text{ MPa}$
R&S constitutive parameters	$a = 0.012, b = 0.016, L = 1 \cdot 10^{-5} \text{ m}$
Reference value for the friction coefficient	$m_* = 0.56, V_* = 1000 \text{ m/s}$
Initial values of the state variable within the nucleation zone and outside	$\Phi(x_1, t = 0) = \begin{cases} \Phi_{\text{nucl}} = 1 \cdot 10^{-4} \text{ s} & , x_1 \in [-1.5 \text{ m}, 1.5 \text{ m}] \\ \Phi^{ss}(v_{\text{init}}) & , \text{elsewhere} \end{cases}$
Fault discretization: spatial and temporal time steps	$\mathbf{D}x = 0.01 \text{ m} \quad w_{CFL} = v_S \mathbf{D}t / \mathbf{D}x$

Table 3.1. Adopted parameters.

