Errata list for Elements of Crustal Geomechanics

Page 159, equation 6.187 should read:

$$p_{,z} = \mu_d v_{z_{,\rho\rho}} + \frac{1}{\rho} v_{z_{,\rho}}$$

same correction for equation in exercise 1

Page 213, equation 8.19 should read :

$$(|\tau| - \mu\sigma_n) = \frac{\sigma_1 - \sigma_3}{2}(1 + \mu^2)^{+1/2} - \frac{\mu}{2}(\sigma_1 + \sigma_3)$$

Page 333, equation 12.67 should read :

$$\zeta = \alpha \,\varepsilon_{kk} + \frac{\alpha P_p}{K_{B_u} B}$$

Page 357, the first sentence of the last paragraph should read:

Whether fresh shear zones develop when the pore pressure in a rock mass gets large enough has been questioned, for it is often considered that preexisting faults and fractures constitute weaker zones, i.e. they are mobilized before a fresh shear zone is generated.

Page 378, equation 13.12 should read:

$$\sigma_{\theta\theta}|_{\rho=R} = (\sigma_{11} + \sigma_{22}) - 4\left(\frac{\sigma_{11} - \sigma_{22}}{2}\cos 2\theta + \sigma_{12}\sin 2\theta\right) - \left[P_w + 2\eta_B\left(P_0 - P_w\right) + \frac{E_B}{1 - \nu_B}\alpha_T\left(T_2 - T_1\right)\right]$$

Page 381, equation 13.19 should read :

$$\sigma_{\theta}|_{\rho=R} = -\sigma_M + 3\sigma_m - [P_{br} + 2\eta_B(P_0 - P_{br})] = \sigma^T$$