ERRATA

Correction to Reviews in Mineralogy & Geochemistry Vol. 51

--- Plastic Deformation of Minerals and Rocks ---

Chapter 9 “Seismic Wave Attenuation: Energy Dissipation in Viscoelastic Crystalline Solids”

Pages 253–290

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In a number of equations in the chapter, as well as within Figure 2, the symbol for strain rate (\( \dot{\varepsilon} \)) was inadvertently typeset instead of the symbol for strain (\( \varepsilon \)). The correct versions follow.

Equation (7) should read:

\[
\varepsilon(t) = (\sigma_0 / R_2)(1 - \exp[-R_{2}t / \eta_2]) .
\]  \( (7) \)

Equation (8) should read:

\[
\varepsilon(t) = \varepsilon_{\text{tot}} \exp[-R_{2}(t-t_1)/\eta_2] .
\]  \( (8) \)

Equation (9) should read:

\[
\varepsilon(t) = (\sigma_0 / R_1) + (\sigma_0 / R_2)(1 - \exp[-R_{2}t / \eta_2]) + (\sigma_0 / \eta_1)t .
\]  \( (9) \)

Equation (10) should read:

\[
\varepsilon(t) = (\sigma_0 / R_2)(\exp[-R_{2}t / \eta_2] - 1)(\exp[-R_{2}t / \eta_2]) + (\sigma_0 / \eta_1)t_1 .
\]  \( (10) \)

Equation (17) should read:

\[
\varepsilon = \sigma[(1 / E) + (A t^n) + (t / \eta_{\text{ex}})] .
\]  \( (17) \)
The correct Figure 2 is shown below:

\[ \dot{\varepsilon}(t) = \left( \frac{\sigma_0}{\eta_1} \right) \left( \exp(-R_2 t / \eta_1) \right) + \left( \frac{\sigma_0}{\eta_1} \right) \]

\[ \varepsilon(t) = \left( \frac{\sigma_0}{R_1} \right) + \left( \frac{\sigma_0}{R_2} \right) (1 - \exp(-R_3 t / \eta_1)) + \left( \frac{\sigma_0}{\eta_1} \right) t \]

**Figure 2.** Burgers Solid (four-element) model, including characteristic differential equation and strain response for static loading/unloading.