

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 ($\dot{\epsilon}$) was inadvertently typeset instead of the symbol for strain (ϵ). The correct versions follow.

Equation (7) should read:

$$\epsilon(t) = (\sigma_0 / R_2)(1 - \exp[-R_2 t / \eta_2]). \quad (7)$$

Equation (8) should read:

$$\epsilon(t) = \epsilon_{t=t_1} \exp[-R_2(t - t_1) / \eta_2]. \quad (8)$$

Equation (9) should read:

$$\epsilon(t) = (\sigma_0 / R_1) + (\sigma_0 / R_2)(1 - \exp[-R_2 t / \eta_2]) + (\sigma_0 / \eta_1)t. \quad (9)$$

Equation (10) should read:

$$\epsilon(t) = (\sigma_0 / R_2)(\exp[-R_2 t_1 / \eta_2] - 1)(\exp[-R_2 t / \eta_2]) + (\sigma_0 / \eta_1)t_1. \quad (10)$$

Equation (17) should read:

$$\epsilon = \sigma[(1 / E) + (At^n) + (t / \eta_{ss})]. \quad (17)$$

The correct Figure 2 is shown below:

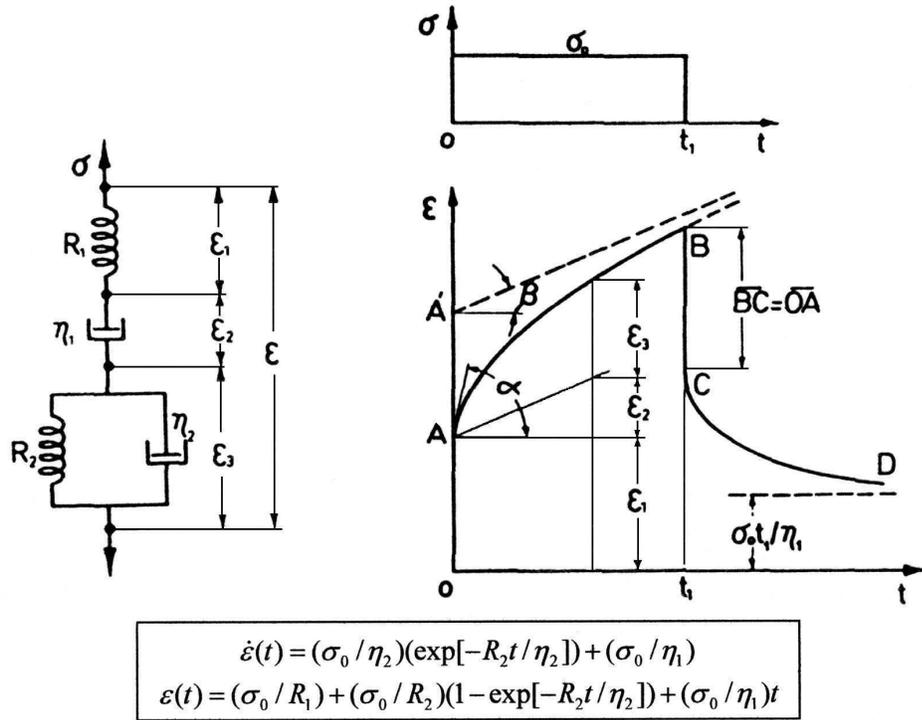


Figure 2. Burgers Solid (four-element) model, including characteristic differential equation and strain response for static loading/unloading.