

References and Notes

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CORRECTIONS

Burak Erman and Lucien Monnerie*: Theory of Elasticity of Amorphous Networks: Effect of Constraints along Chains. Volume 22, Number 8, August 1989, pp 3342-3348.

Equations 23, 28, 29, 31, 40, and 41 of ref 1 should be corrected as

$$\frac{\rho_\lambda}{\rho_{*\lambda}} = 1 + \frac{\left(\frac{\sigma_\lambda}{\rho_\lambda}\right)^2 \left(\frac{\eta_0 \rho_\lambda}{\eta_\lambda \rho_0} - 1\right) + \left(\frac{\sigma_\lambda}{\rho_\lambda}\right) \left(\frac{\eta_0 \sigma_\lambda}{\eta_\lambda \sigma_0} - 1\right)}{\left(1 + \frac{\sigma_\lambda}{\rho_\lambda}\right)^2} \quad (23)$$

$$\frac{\sigma_\lambda}{\rho_\lambda} = \lambda_x^{-2} \kappa_G [1 + (\lambda_x^2 - 1)\Phi] \equiv \lambda_x^{-2} h(\lambda_x) \quad (28)$$

$$h(\lambda_x) \equiv \kappa_G [1 + (\lambda_x^2 - 1)\Phi] \quad (29)$$

$$B_x = h(\lambda_x) \kappa_G (1 - \Phi) (\lambda_x^2 - 1) / [\lambda_x^2 + h(\lambda_x)]^2 \quad (31)$$

$$\dot{B} \equiv \frac{\partial B}{\partial \lambda^2} = B \left\{ (\lambda^2 - 1)^{-1} - 2[\lambda^2 + h(\lambda)]^{-1} + \frac{\kappa_G [\lambda^2 - h(\lambda)]\Phi}{h(\lambda) [\lambda^2 + h(\lambda)]} \right\} \quad (40)$$

$$\dot{D} \equiv \frac{\partial D}{\partial \lambda^2} = B \left[h(\lambda)^{-1} - \frac{\lambda^2 \kappa_G \Phi}{h(\lambda)^2} \right] + \frac{\lambda^2 \dot{B}}{h(\lambda)} \quad (41)$$

The $g(\alpha)$ vs α^{-1} curves given in Figure 5 of the paper are not noticeably affected by the corrections, provided that the κ_G values are suitably rescaled. Hence, the qualitative predictions and conclusions given in the original manuscript remain unchanged.

The figures given in refs 2 and 3 comparing experimental data with predictions of the theory based on ref 1 are not

significantly affected by the correction provided that the κ_G and $[f^*]_{ph}$ parameters are suitably rescaled. As an

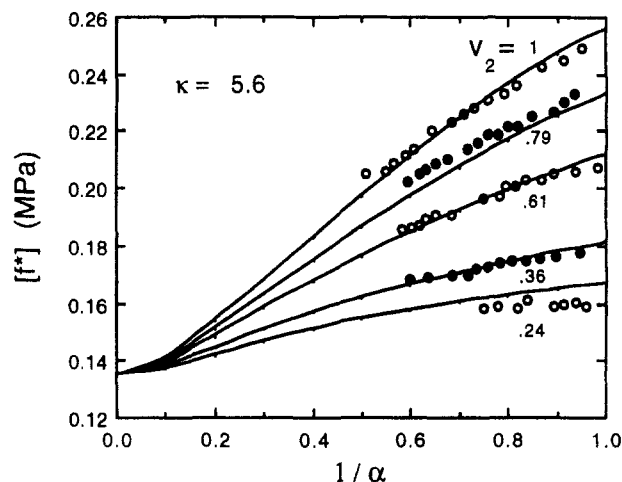


Figure 1. Figure 1 of ref 2 replotted according to the corrected expressions.

example, Figure 1 of ref 2 is replotted in terms of the corrected expression. The $[f^*]_{ph}$ and κ_G parameters required for the fit have been changed from 0.15 MPa and 3.0 to 0.135 MPa and 5.6, respectively.

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References and Notes

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