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Mesoscopic theory of the viscoelasticity of polymers. Chitanvis SM(1). Author information: (1)Theoretical Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA. We have advanced our previous static theory of polymer entanglement involving an extended Cahn-Hilliard functional, to include time-dependent dynamics.

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Theory and mechanism. Reptation theory describes the effect of polymer chain entanglements on the relationship between molecular mass and chain relaxation time (or similarly, the polymer 's zero-shear viscosity). The theory predicts that, in entangled systems, the relaxation time is proportional to the cube of molecular mass, $M: \tau \sim M^3$. This is a reasonable approximation of the actual ...