

1. *Shear*		
Startup	$\eta^+(t,\dot\gamma_0)$	$\frac{\eta_0\left(1+\lambda_1\lambda_2\dot\gamma_0^2\right)}{1+\lambda_1^2\dot\gamma_0^2}+\frac{\eta_0\left(1-\lambda_2/\lambda_1\right)}{1+\lambda_1^2\dot\gamma_0^2}\mathcal{A}$ $\mathcal{A}=\left(\lambda_1\dot\gamma_0\sin\dot\gamma_0 t-\cos\dot\gamma_0 t\right)e^{-t/\lambda_1}$
	$\Psi_1^+(t,\dot\gamma_0)$	$\frac{2\eta_0\left(\lambda_1-\lambda_2\right)}{1+\lambda_1^2\dot\gamma_0^2}-\frac{2\eta_0\lambda_1\left(1-\lambda_2/\lambda_1\right)}{1+\lambda_1^2\dot\gamma_0^2}\mathcal{B}$ $\mathcal{B}=\left(\frac{1}{\lambda_1\dot\gamma_0}\sin\dot\gamma_0 t+\cos\dot\gamma_0 t\right)e^{-t/\lambda_1}$
	$\Psi_2^+(t,\dot\gamma_0)$	$-\frac{1}{2}\Psi_1^+$
Steady	$\eta(\dot\gamma)$	$\frac{\eta_0\left(1+\lambda_1\lambda_2\dot\gamma^2\right)}{1+\lambda_1^2\dot\gamma^2}$
	$\Psi_1(\dot\gamma)$	$\frac{2\eta_0\left(\lambda_1-\lambda_2\right)}{1+\lambda_1^2\dot\gamma^2}$
	$\Psi_2(\dot\gamma)$	$\frac{-\eta_0\left(\lambda_1-\lambda_2\right)}{1+\lambda_1^2\dot\gamma^2}=-\frac{1}{2}\Psi_1$
Cessation	$\eta^-(t,\dot\gamma_0)$	$\frac{\eta_0\left(1-\lambda_2/\lambda_1\right)}{1+\lambda_1^2\dot\gamma_0^2}e^{-t/\lambda_1}$
	$\Psi_1^-(t,\dot\gamma_0)$	$\frac{2\eta_0\lambda_1\left(1-\lambda_2/\lambda_1\right)}{1+\lambda_1^2\dot\gamma_0^2}e^{-t/\lambda_1}$
	$\Psi_2^-(t,\dot\gamma_0)$	$-\frac{1}{2}\Psi_1^-$
SAOS	$\eta'(\omega)=\frac{G''}{\omega}$	$\frac{\eta_0\left(1+\lambda_1\lambda_2\omega^2\right)}{1+\lambda_1^2\omega^2}=\eta\left(\dot\gamma\right)\big\vert_{\dot\gamma=\omega}$
	$\frac{\eta''(\omega)}{\omega}=\frac{G'}{\omega^2}$	$\frac{\eta_0\left(\lambda_1-\lambda_2\right)}{1+\lambda_1^2\omega^2}=\frac{1}{2}\Psi_1\left(\dot\gamma\right)\Big\vert_{\dot\gamma=\omega}$
2. *Extension*		
Steady		
Uniaxial ($b=0,\dot\epsilon_0>0$) or biaxial ($b=0,\dot\epsilon_0<0$) Planar ($b=1,\dot\epsilon_0>0$)	$\bar\eta^(\dot\epsilon_0)$ $\bar\eta_B(t,\dot\epsilon_0)$	$3\eta_0$

Table 1: Predictions of Corotational Jeffreys Model in Shear and Extensional Flows (R. B. Bird, R. A. Armstrong, and O. Hassager, Dynamics of Polymeric Fluids, Volume 1: Fluid Mechanics, Wiley 1977.