









Summary	Generalized Newtonian Fluid Constitutive Equations	
PRO:	•A first constitutive equation	
	•Can match steady shearing data very well	
	•Simple to calculate with	
	•Found to predict pressure-drop/flow rate relationships well	
CON:	•Fails to predict shear normal stresses	
	•Fails to predict start-up or cessation effects (time-dependence, memory) – only a function of instantaneous velocity gradient	
	•Derived ad hoc from shear observations; unclear of validity in non-shear flows	
© Faith A. Morrison, Micl		lichig