**Creep Test** Fall 2015

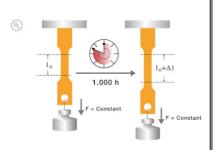
## Experiment 3

## Creep testing of polymers

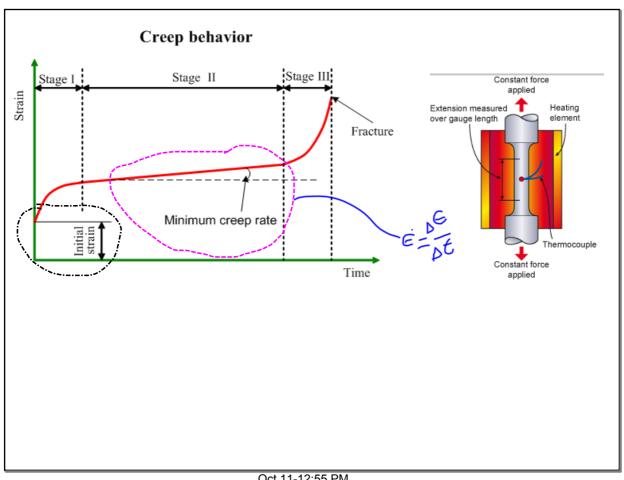
Creep is defined as the time-dependent deformation at elevated temperature (T>40%Tm) and constant stress. (failure happens under yield stress)

Sometimes called cold flow, which is the tendency of a material to move slowly or deform permanently under the influence of constant load.

Can happen in low melting material, like polymers or even in high melting material like steel in high temperature, like can engines, power plants, nuclear plants, boilers, gas turbines, jet engines, ovens, or any application that involves high temperatures under load...

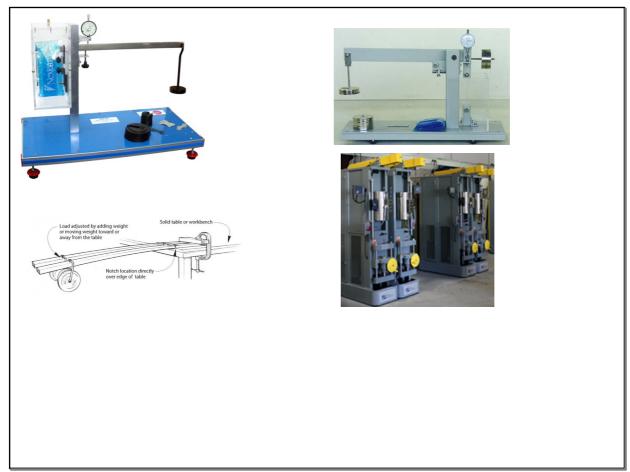


Apr 27-2:38 PM

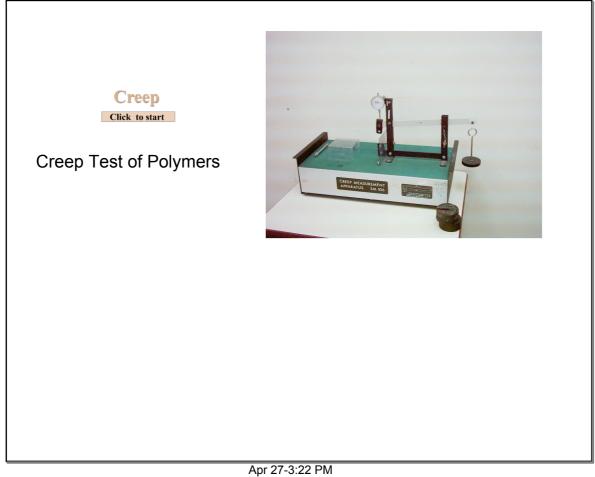


Oct 11-12:55 PM

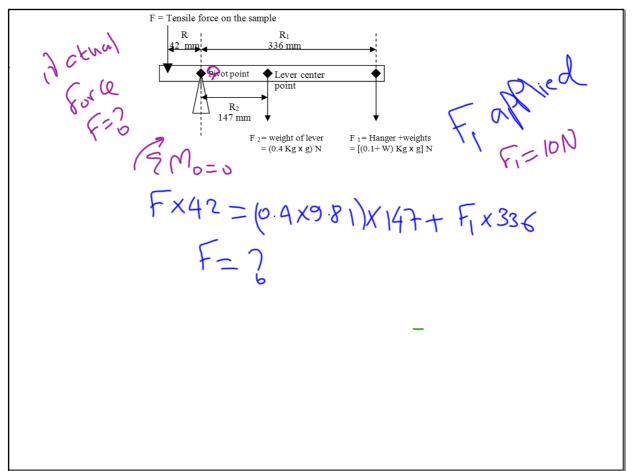
**Creep Test** Fall 2015



Apr 27-3:07 PM



Creep Test Fall 2015

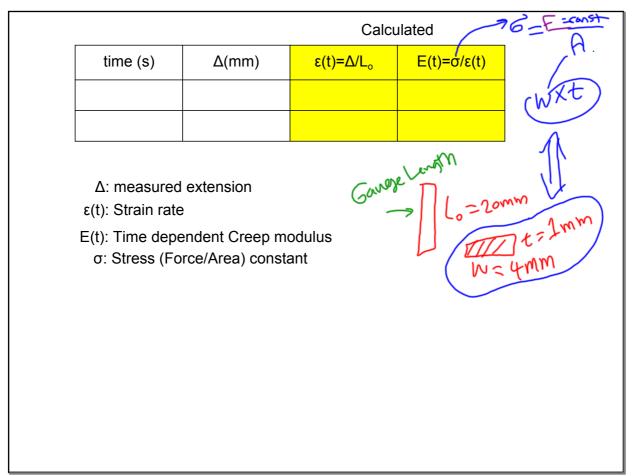


Apr 27-2:43 PM

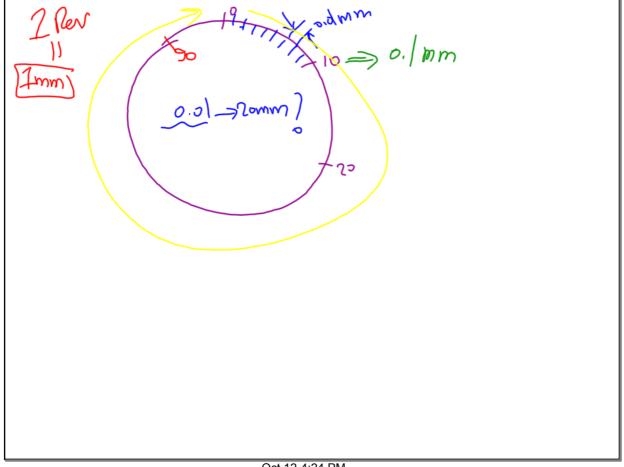
	time(5)	△ (mm)	time(s)	D (mm		
2 min 4 min 2 ynin	0		960			
	10					
	20					
	40					
	60					
	120					
	240					
	480					

Oct 11-2:42 PM

**Creep Test** Fall 2015

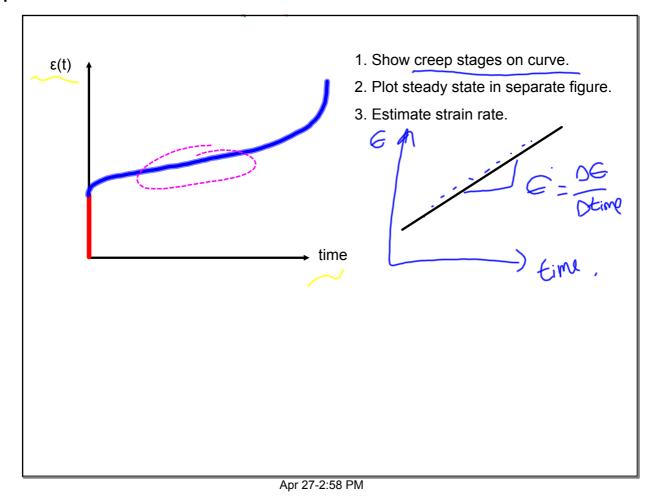


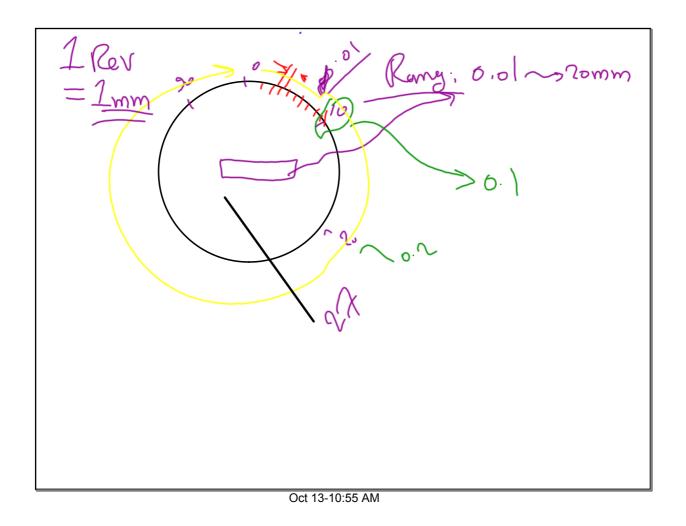
Apr 27-2:50 PM

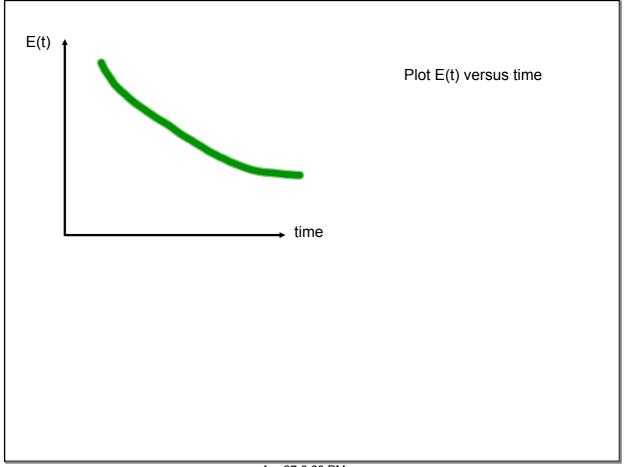


Oct 12-4:24 PM

Creep Test Fall 2015







Apr 27-3:03 PM

Answer Lab assignment questions
Add one page to the report about creep failure with photo

Creep	Test					
		Oct 11-1:11 PM	_			

Fall 2015