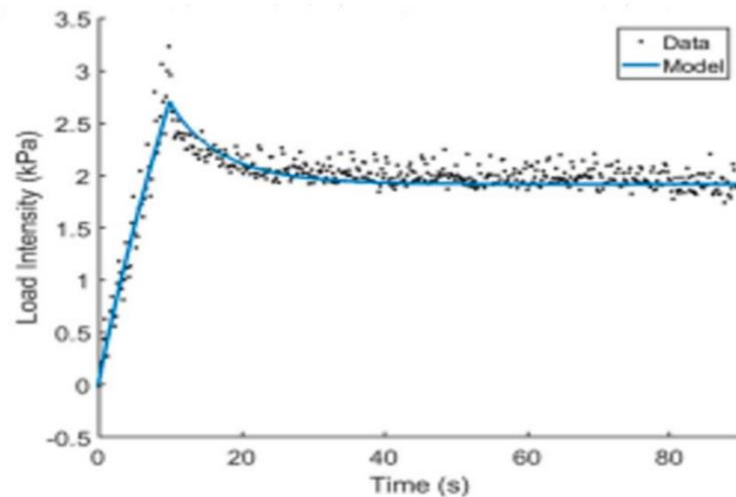
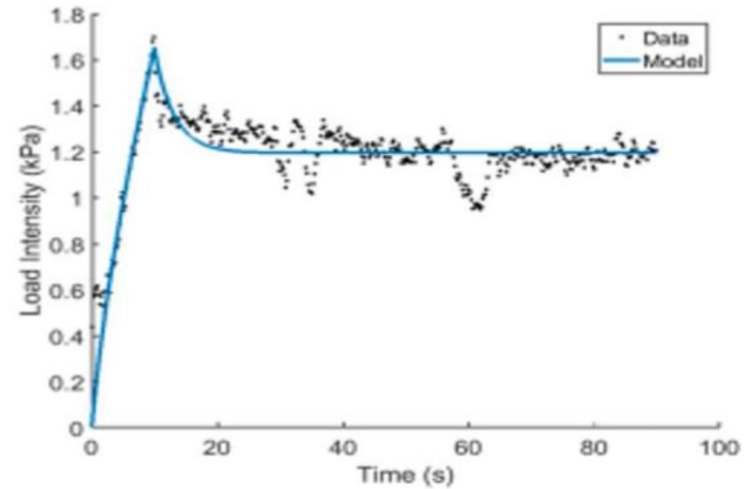


Consider the stress relaxation process discussed in the [Module 13 Lecture](#). The maximal and minimal values of the stress are reached at the beginning and the end (equilibrium moment) of the process. Use the lecture results to estimate the stress drop as a result of relaxation. Consider the cases of 50% and 70% porosity.

50% Scaffold Porosity, 1%/sec Strain Rate



70% Scaffold Porosity, 1%/sec Strain Rate



Scaffold Porosity	Data Max. Stress (kPa)	Data Min. Stress (kPa)	Data Stress Drop due to relaxation (kPa)	Model Max. Stress (kPa)	Model Min. Stress (kPa)	Model Stress Drop due to relaxation (kPa)
50%	3.4	1.8	$3.4 - 1.8 = \mathbf{1.6}$	2.6	1.9	$2.6 - 1.9 = \mathbf{0.7}$
70%	1.7	0.9	$1.7 - 0.9 = \mathbf{0.8}$	1.6	1.2	$1.6 - 1.2 = \mathbf{0.4}$