Japan Association for Nonlinear CAE

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	G[Mpa]	β [1/sec]
∞	8.23E−01	
1	6.41E+01	9.43E+15
2	4.58E+01	3.14E+14
3	9.53E+01	3.14E+13
4	1.08E+02	3.14E+12
5	5.61E+01	3.14E+11
6	1.23E−09	3.14E+10
7	2.07E+02	6.28E+09
8	1.23E+02	6.28E+08
9	1.77E+01	6.28E+07
10	3.31E+00	6.28E+06
11	1.36E+00	6.28E+05
12	4.04E−01	6.28E+04
13	2.54E−01	6.28E+03
14	1.15E−01	6.28E+02
15	2.25E−02	6.28E+01
16	1.36E−01	6.28E+00

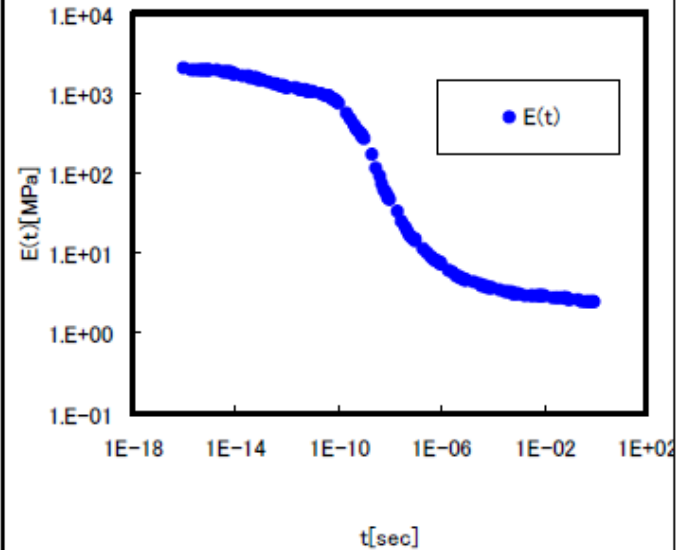|	K[Mpa]	
∞	3.61E+05	

Prony series

$$G(t) = G_{\infty} + \sum_{i=1}^{N} G_i e^{-\beta_i t}, \quad K(t) = K_{\infty}$$

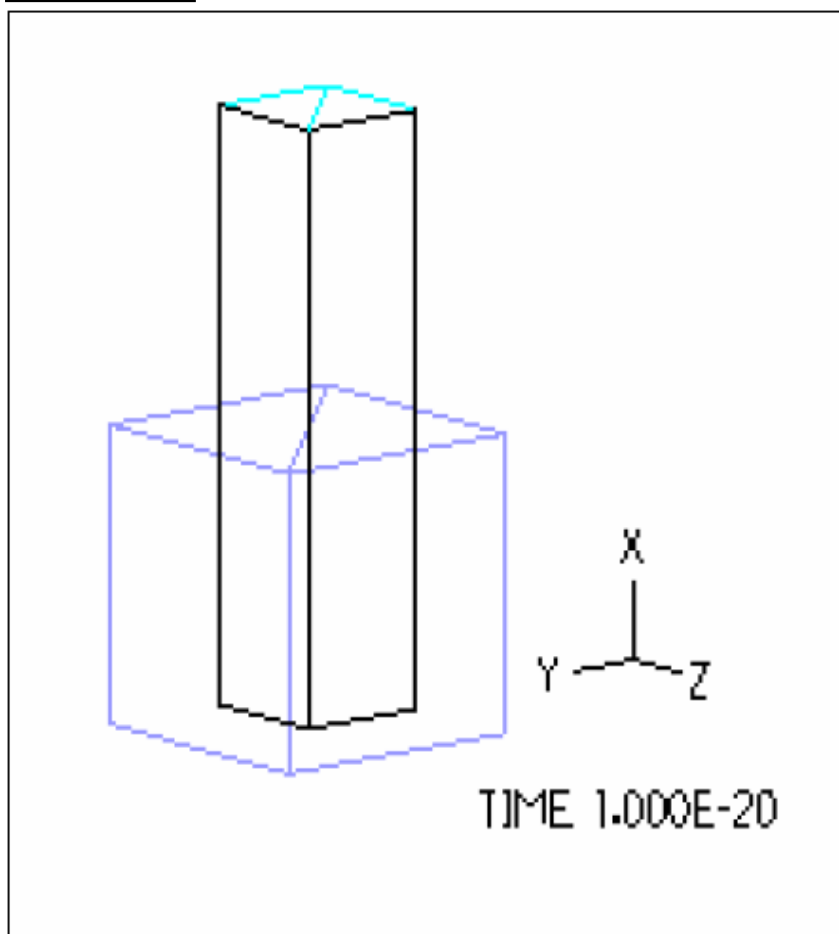Actual measurement along with fitted curve
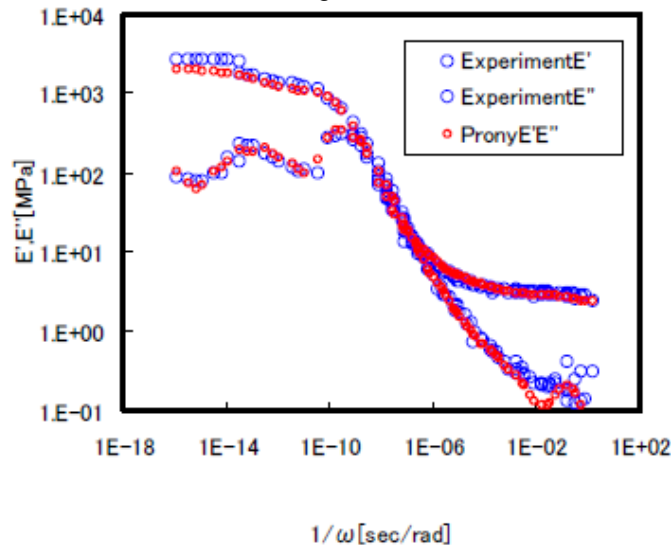
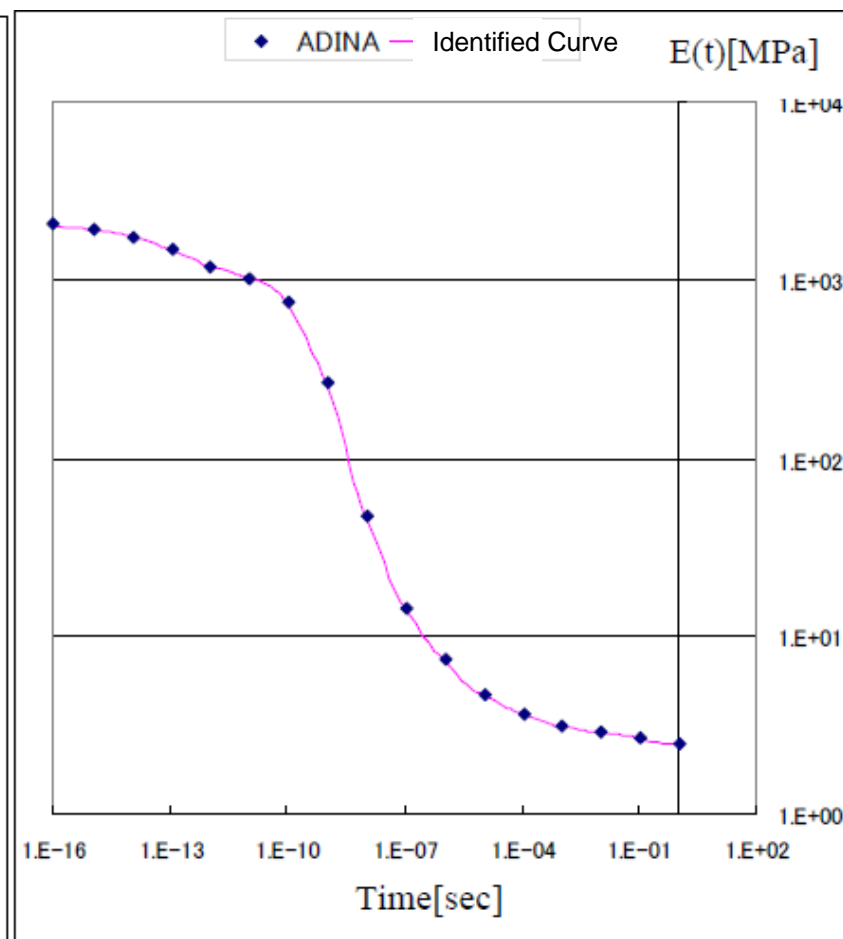Stress-relaxation curve with identified parameters

Stress-relaxation analysis (relax_1hs50.in)
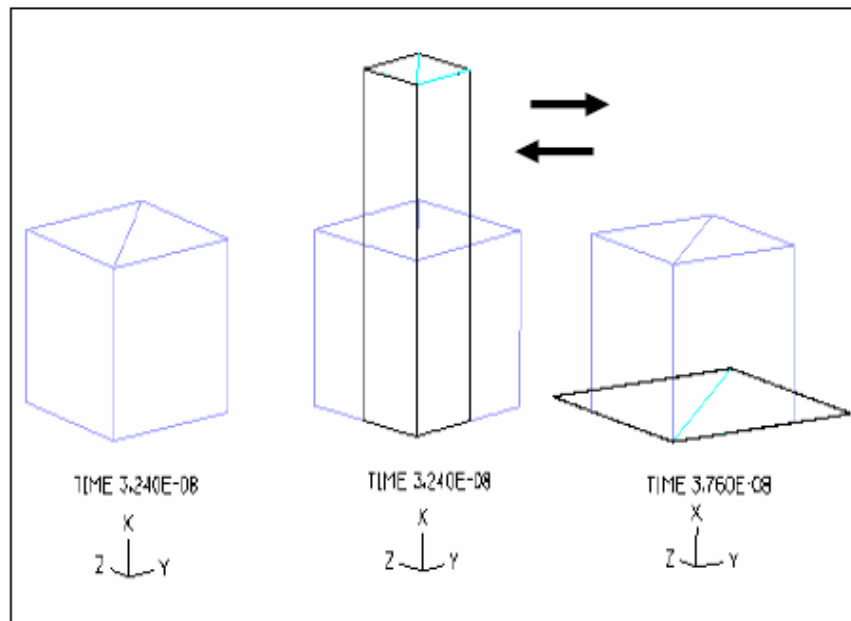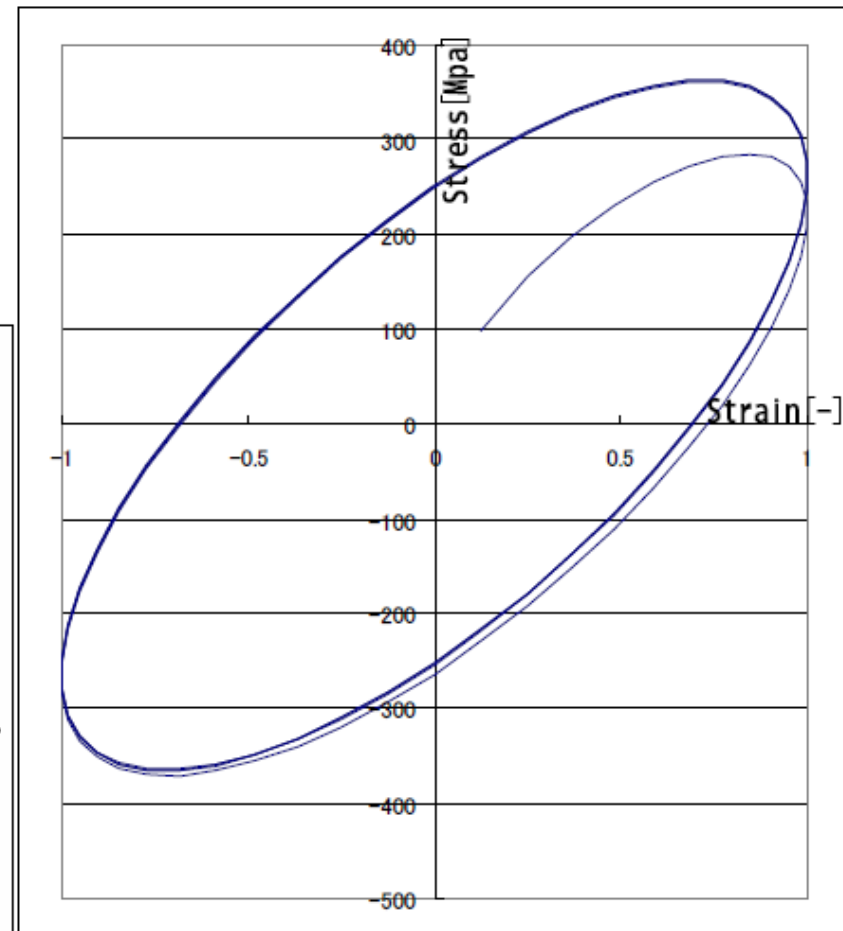## Hardness (50), Damping (Small)

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TIME 1.000E-20

Analysis model

Stress-relaxation curve

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Analysis model

10^8 Hz hysteresis curve

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