

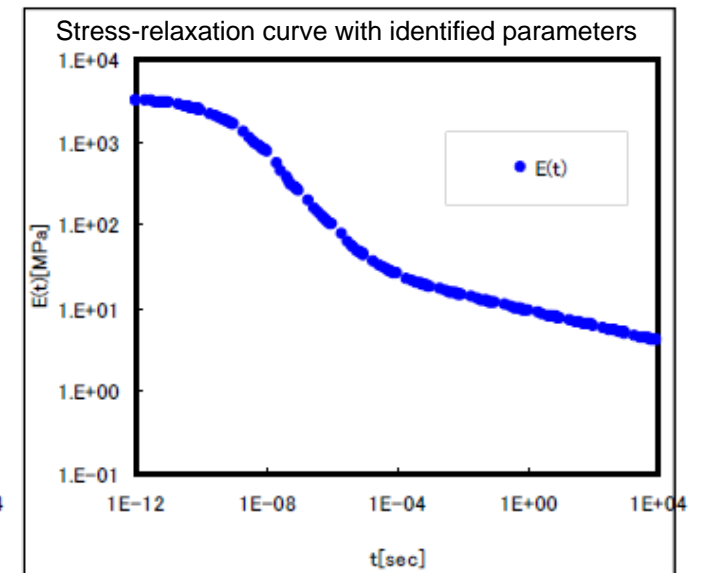
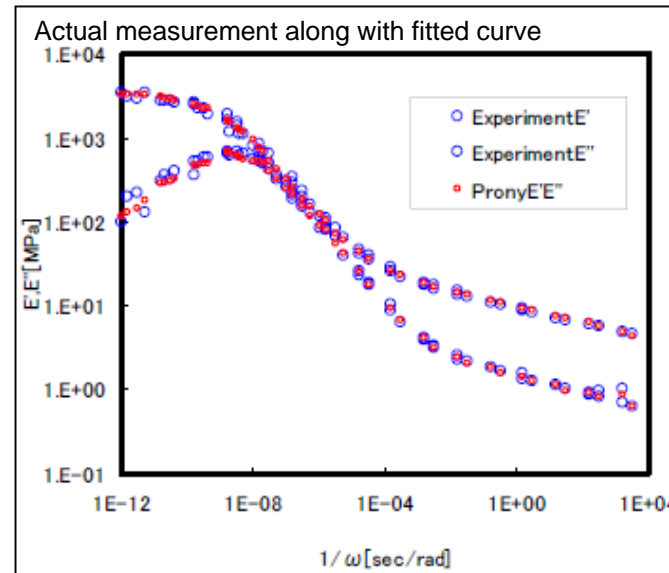
Identification of material property 2hs50 Hardness (50), Damping (Large)

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	G[Mpa]	β [1/sec]
∞	1.38E+00	
1	5.66E+01	9.43E+11
2	1.32E+02	6.28E+10
3	2.08E+02	6.28E+09
4	3.47E+02	6.28E+08
5	2.54E+02	6.28E+07
6	7.48E+01	6.28E+06
7	2.91E+01	6.28E+05
8	8.20E+00	6.28E+04
9	3.28E+00	6.28E+03
10	1.57E+00	6.28E+02
11	1.02E+00	6.28E+01
12	8.28E-01	6.28E+00
13	6.49E-01	6.28E-01
14	5.10E-01	6.28E-02
15	3.90E-01	6.28E-03
16	4.72E-01	6.28E-04
	K[Mpa]	
∞	5.60E+05	

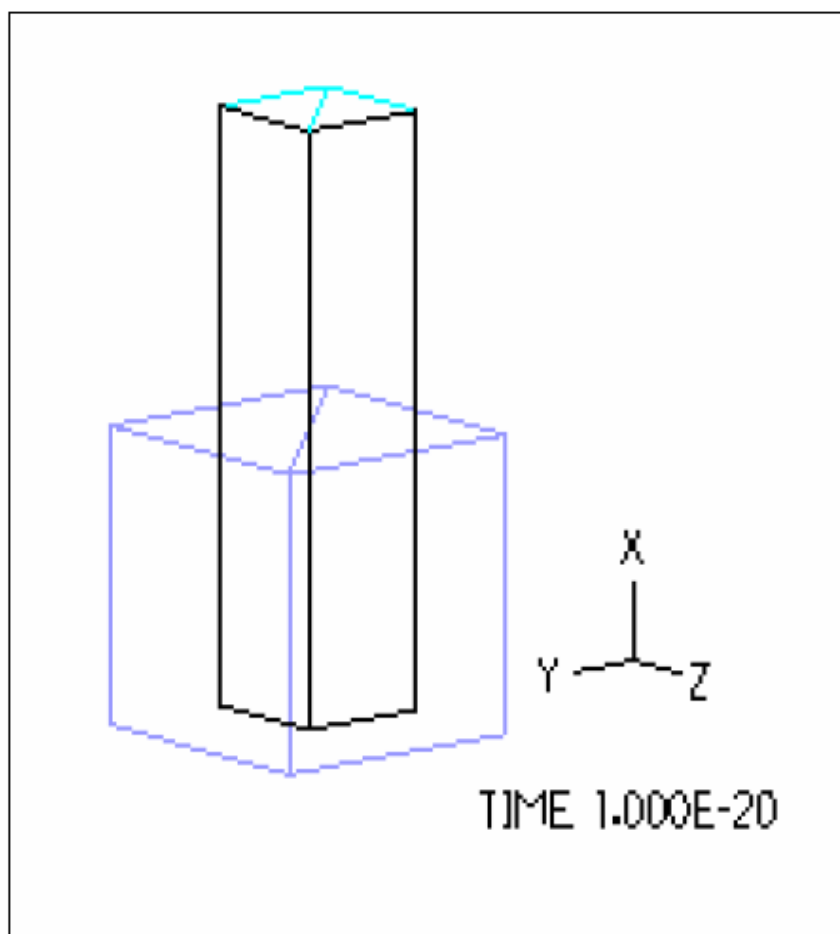
Prony series

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

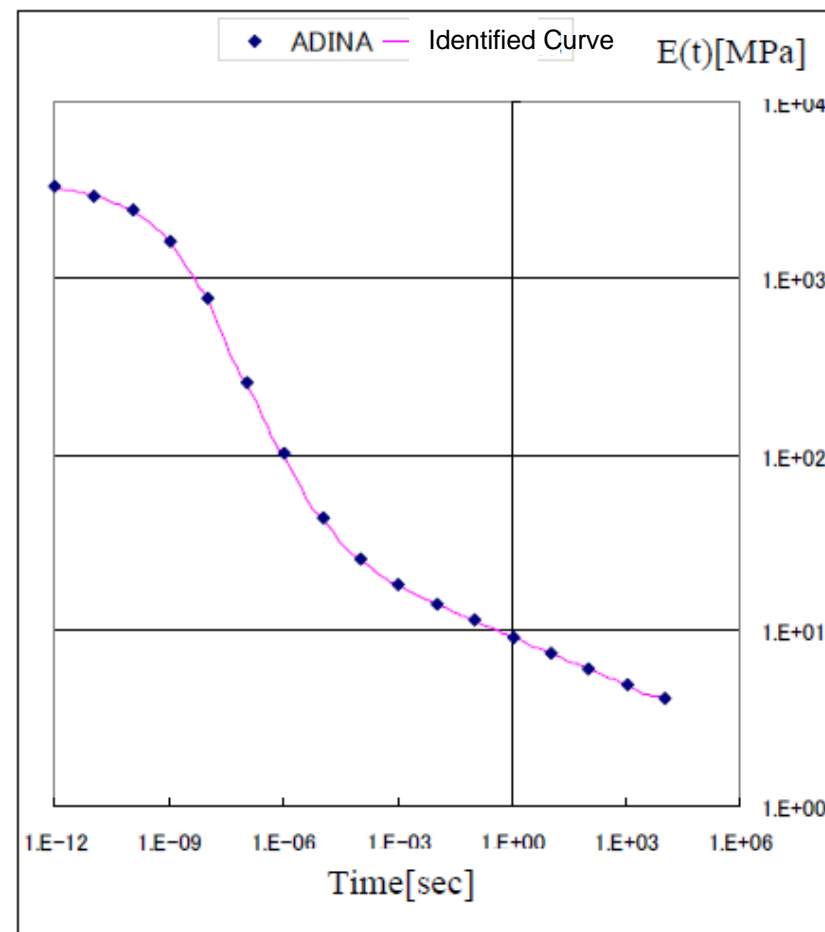


Stress-relaxation analysis (relax_2hs50.in) Hardness (50), Damping (Large)

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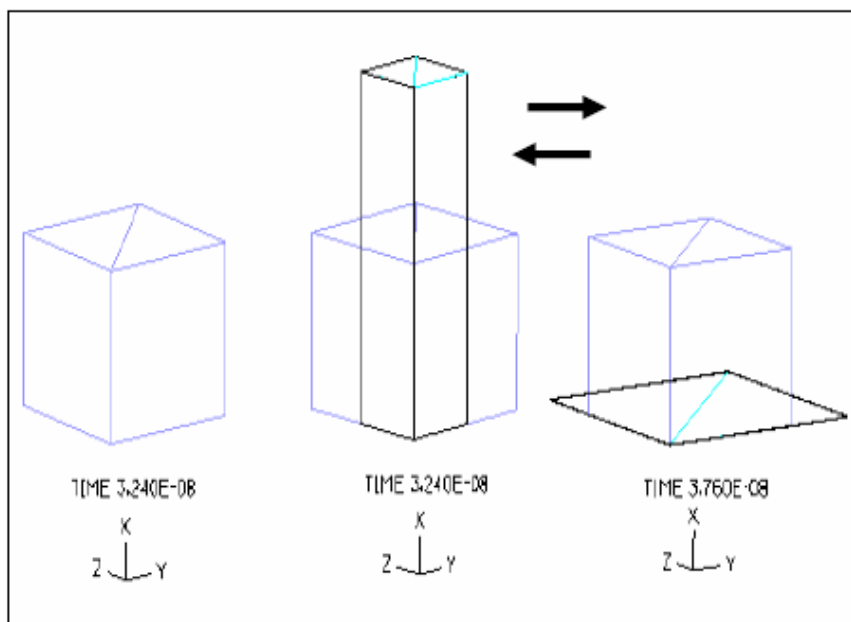
Analysis model



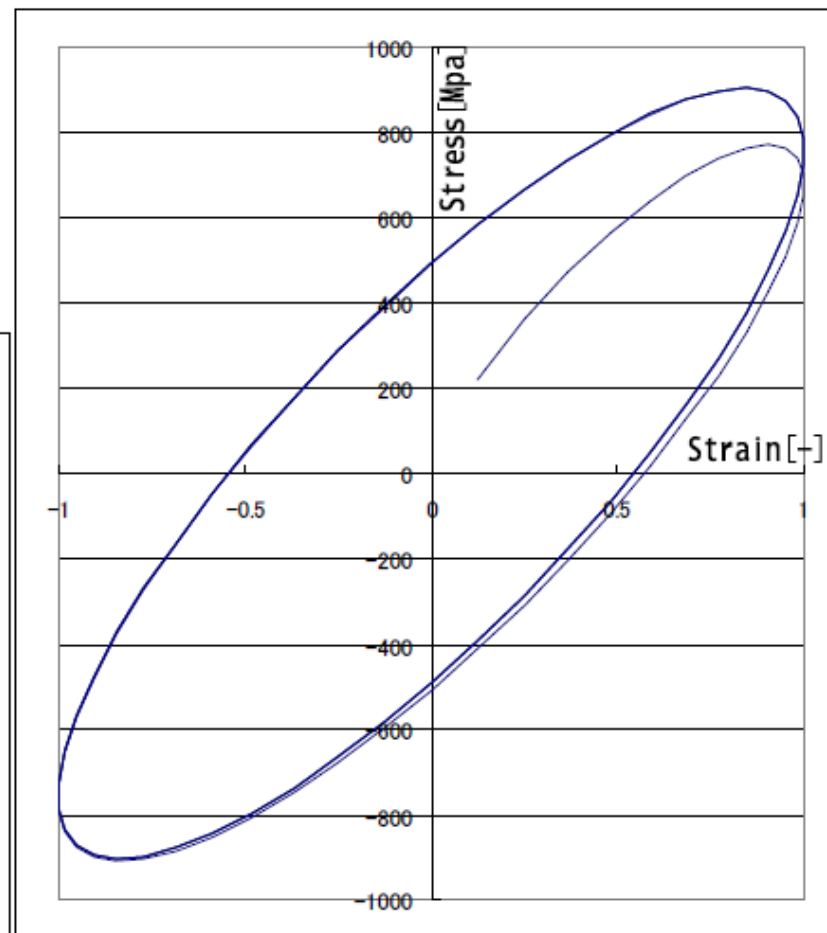
Stress-relaxation curve

Harmonic vibration analysis (freq_2hs50.in) Hardness (50), Damping (Large)

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Analysis model



10^7 Hz hysteresis curve