

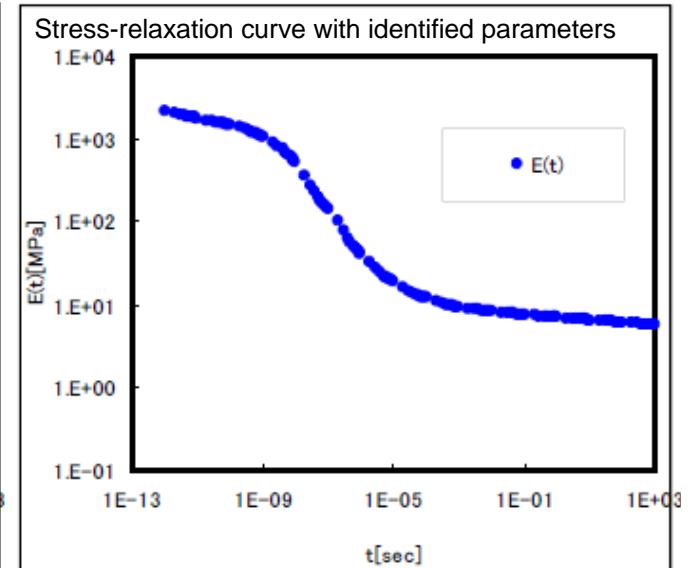
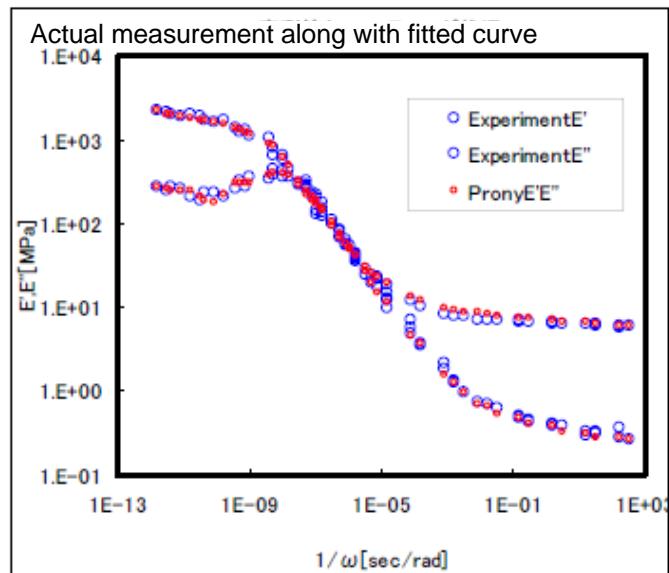
Identification of material property 1hs65 Hardness (65), Damping (Small)

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	G[Mpa]	β [1/sec]
∞	1.80E+00	
1	1.57E+02	6.28E+11
2	1.16E+02	6.28E+10
3	1.57E+02	2.51E+09
4	1.35E+02	2.51E+08
5	1.70E+02	6.28E+07
6	5.49E+01	6.28E+06
7	1.12E+01	6.28E+05
8	3.40E+00	6.28E+04
9	1.27E+00	6.28E+03
10	4.18E-01	6.28E+02
11	2.66E-01	6.28E+01
12	2.08E-01	6.28E+00
13	1.72E-01	6.28E-01
14	1.40E-01	6.28E-02
15	1.25E-01	6.28E-03
16	1.65E-01	6.28E-04
	K[Mpa]	
∞	4.04E+05	

Prony series

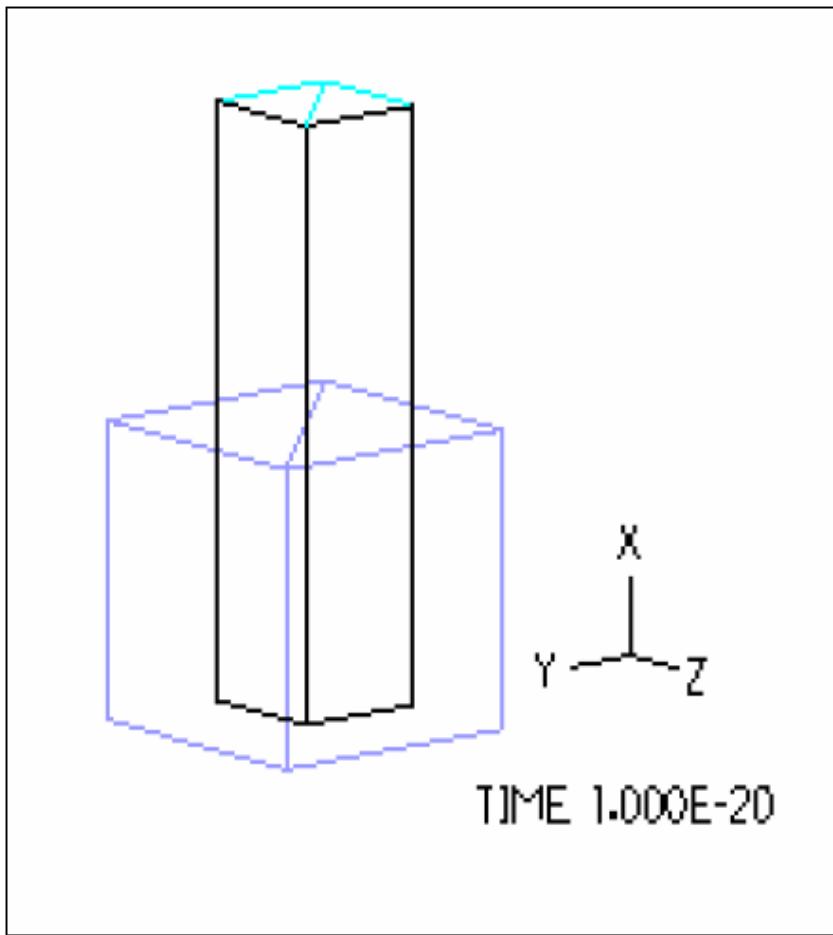
$$G(t) = G_{\infty} + \sum_{i=1}^N G_i e^{-\beta_i t}, \quad K(t) = K_{\infty}$$



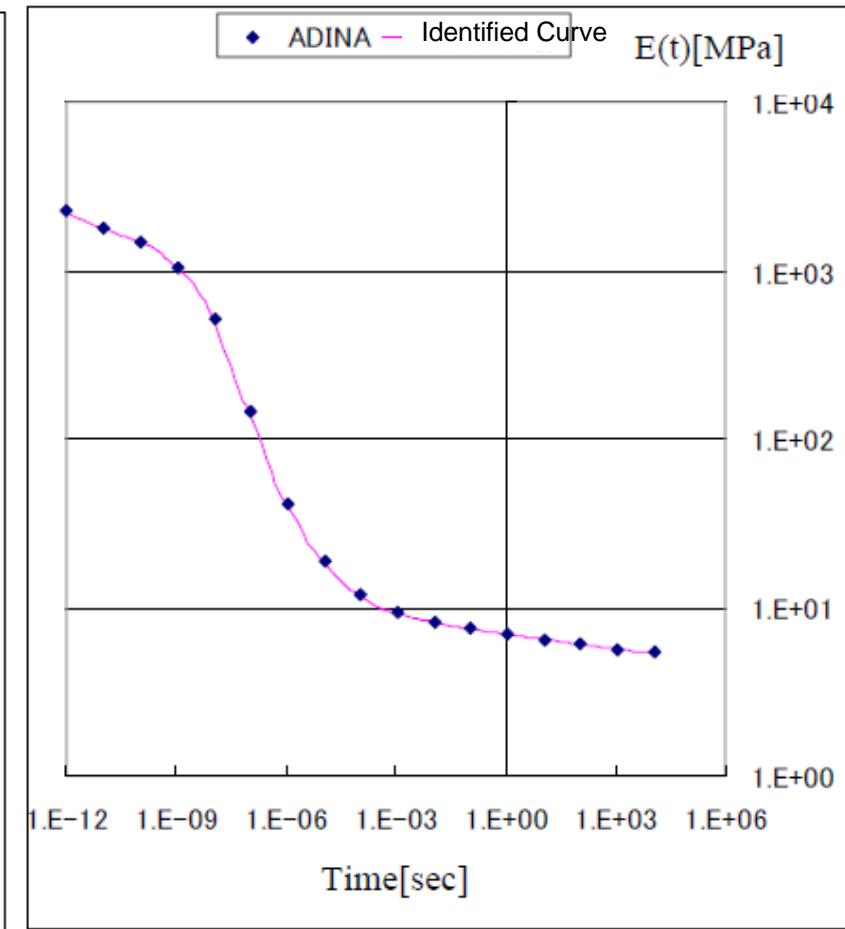
Stress-relaxation analysis (relax_1hs65.in)

Hardness (65), Damping (Small)

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Analysis model

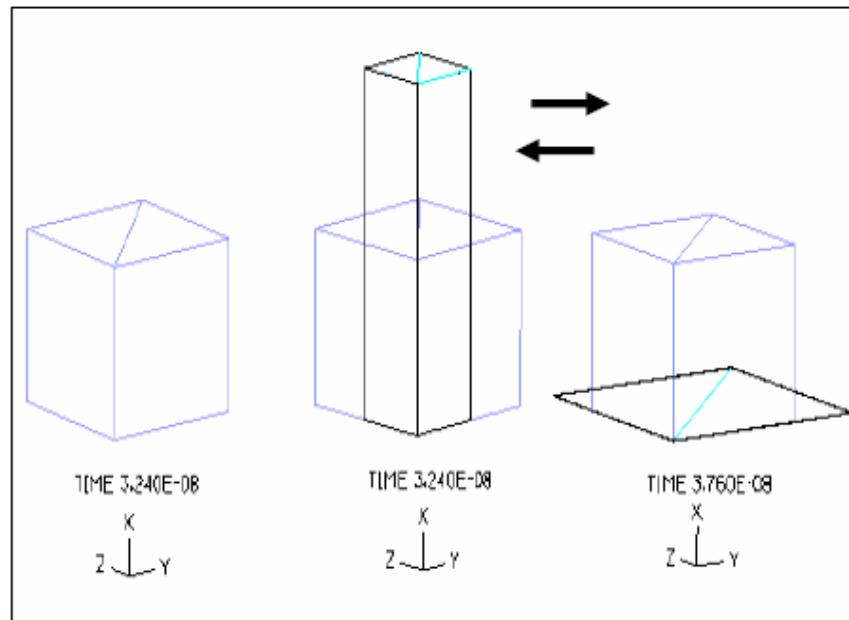


Stress-relaxation curve

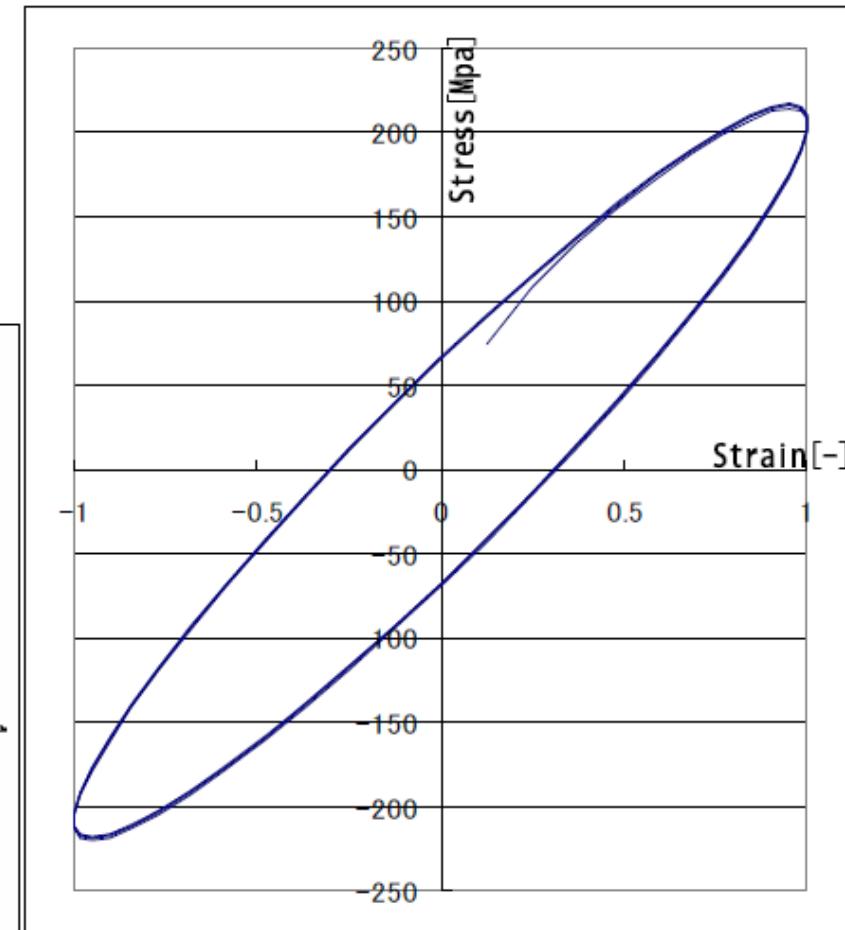
Harmonic vibration analysis (freq_1hs65.in)

Hardness (50), Damping (Small)

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Analysis model



10^6 Hz hysteresis curve