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8 of 8

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Advanced Stress + FEA

$$\text{Goodman} = \sigma_a = \sigma_N \left[1 - \left(\frac{\sigma_m}{\sigma_{TS}} \right) \right]$$

$$\text{Geber} = \sigma_a = \sigma_N \left[1 - \left(\frac{\sigma_m}{\sigma_{TS}} \right)^2 \right]$$

$$\text{Soderberg} = \sigma_a = \sigma_N \left[1 - \left(\frac{\sigma_m}{\sigma_Y} \right) \right]$$

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Results from these equations are plotted in graph ①.

Most results fall in the shaded region between Goodman + Geber curves.

Soderberg gives a margin of safety.