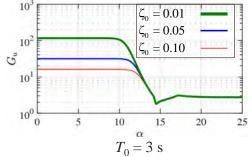


$$G_u \approx G_D + \frac{K_{PV}\bar{X}}{K_{PD}\bar{X}}(G_D - 1)\omega_1$$

accuracy verification

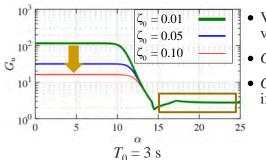


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Gust factor for control force

$$G_u \approx G_D + \frac{K_{PV}\bar{X}}{K_{PD}\bar{X}}(G_D - 1)\omega_1$$

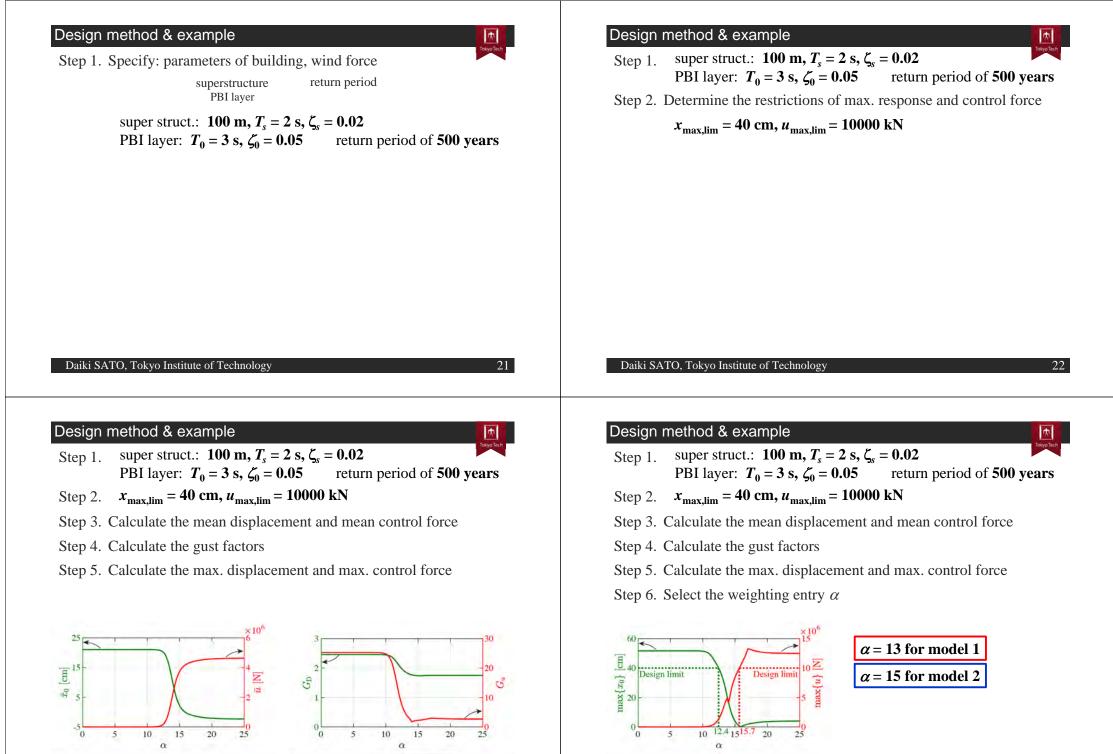
accuracy verification



- Validity is confirmed via numerical simulations
- $G_D \downarrow$ as $\zeta_0 \uparrow$ if $\alpha < 10$
- G_D is same for different ζ_0 if $\alpha > 15$

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