

A low-order analytical model to monitor tension in shallow cables with specific end conditions

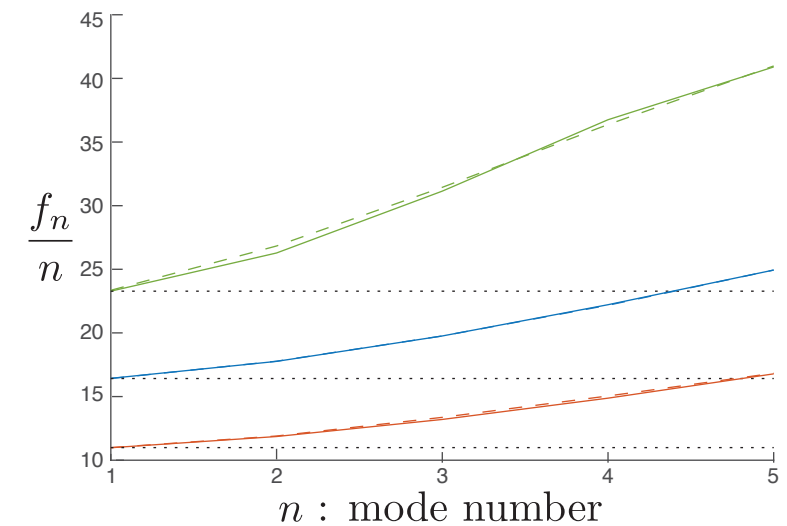
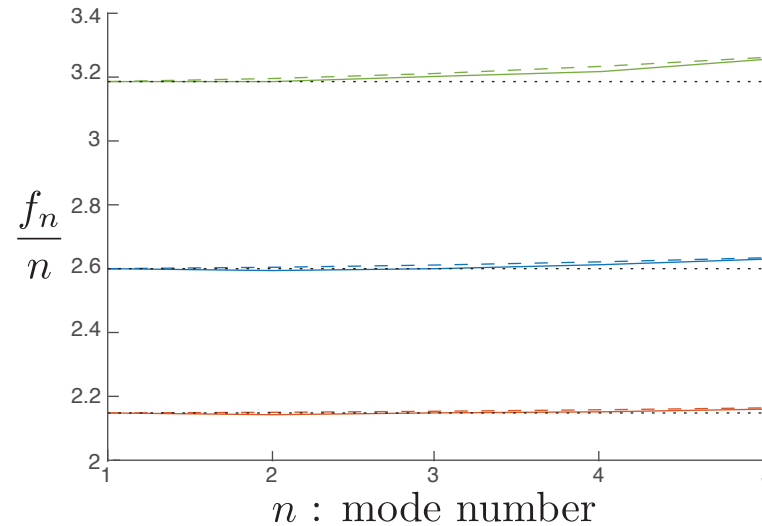
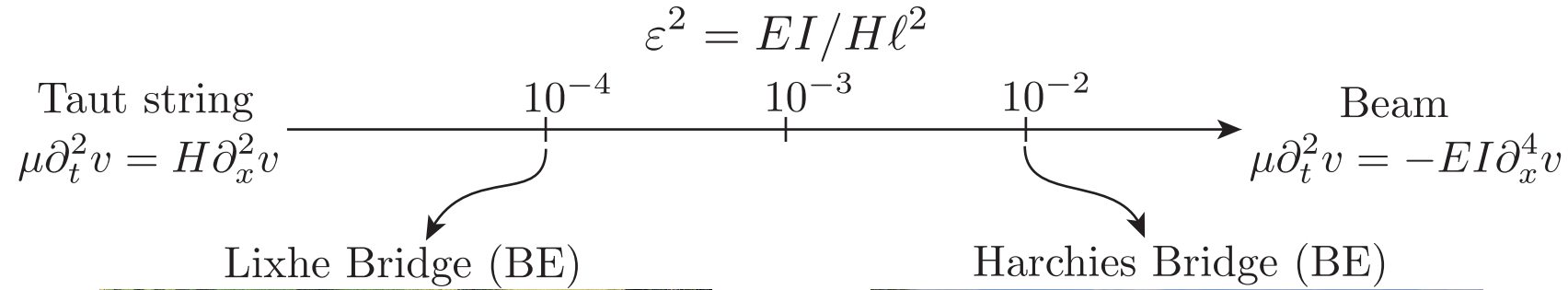
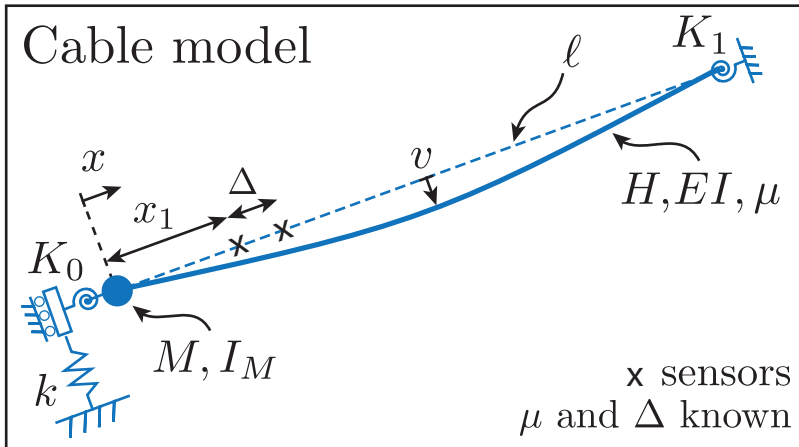
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1. Accurate on site measurements

With several sensors

- Natural frequencies f [Hz]
 $\rightarrow H, EI, M, I_M, k$
- Mode shape ratios
 $\rightarrow K_0, K_1, x_1, \ell$

2. Lighter remote measurements

With one wireless sensor

- Natural frequencies f [Hz]
 $\rightarrow H(t)$