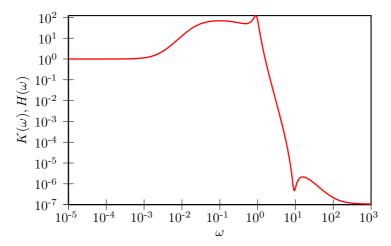
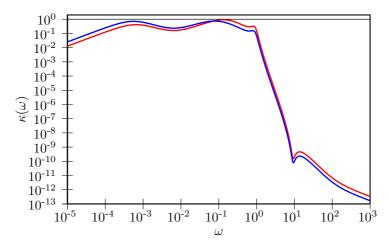
## GENERALIZED LANGEVIN EQUATION ANALYTICS

• Drift matrix  $A_p$ :

- Fluctuation-Dissipation theorem is enforced,  $C_p = k_B T$
- Memory kernel FT,  $K(\omega)/K(0) = H(\omega)/H(0)$



• Sampling efficiency, for  $q^2$  and  $p^2 + \omega^2 q^2$ :



• Free-particle diffusion coeff.  $(mD/k_BT)$ :  $6.3320 \times 10^{+02}$