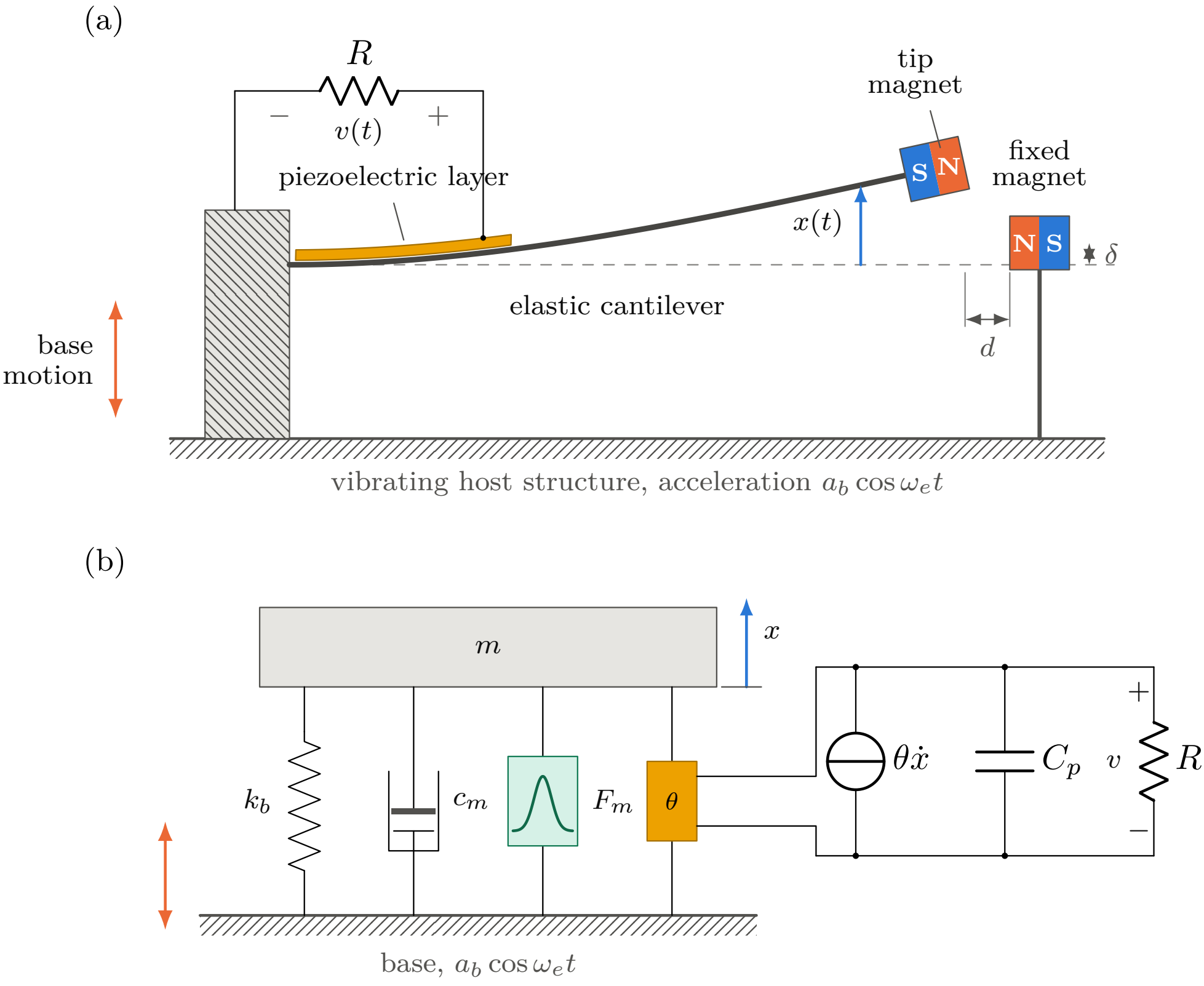

(a)
R
−
v(t)
+
piezoelectric layer
tip
magnet
S
N
fixed
magnet
x(t)
N
S
δ
elastic cantilever
d
base
motion
vibrating host structure, acceleration $a_b \cos \omega_e t$
(b)
m
x
k_b
c_m
F_m
θ
$\theta\dot{x}$
C_p
v
+
R
−
base, $a_b \cos \omega_e t$