

UC Berkeley

Parallel-Plate Capacitive Nonlinearity

- **Example:** clamped-clamped laterally driven beam with balanced electrodes
- **Nomenclature:**

V_a or v_A $v_a = |v_a| \cos \omega t$

V_A

dotted line total signal

V_a or $v_A = V_A + v_a$

Total Value AC or Signal Component
 (upper case variable; upper case subscript) (lower case variable; lower case subscript)

DC Component

Conductive Structure

Electrode

k_m

d_1

m x

F_{d1}

V_1 V_P

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