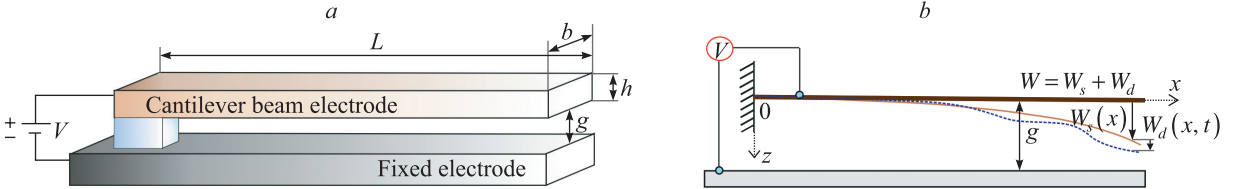

Fig. 1. Schematic configuration of a micro-switch (*a*) and vibration mode W_d of a cantilever near the static deviation W_s (*b*)