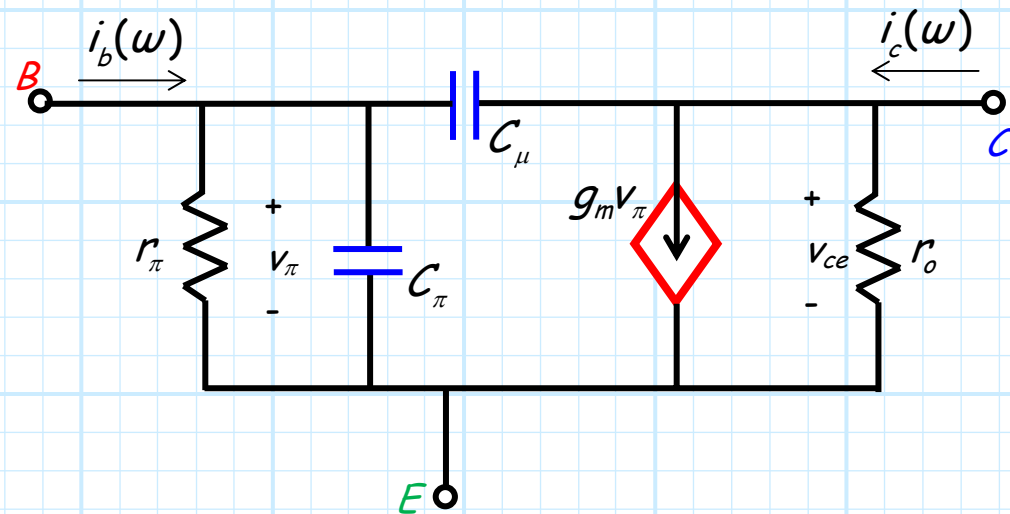


The High-Frequency Hybrid- π Model

Combine the internal capacitances and lead resistance in a **modified** Hybrid- π model.



- * Therefore use this model to construct small-signal circuit when v_i is operating at **high** frequency.
- * Note since $Z_C = 1/j\omega C$, all currents and voltages will be **dependent on operating frequency** ω .
- * Note the voltage across r_π is v_π , but $v_\pi \neq v_{be}$!!!
- * Note at low-frequencies, the model reverts to the **original** Hybrid- π model.