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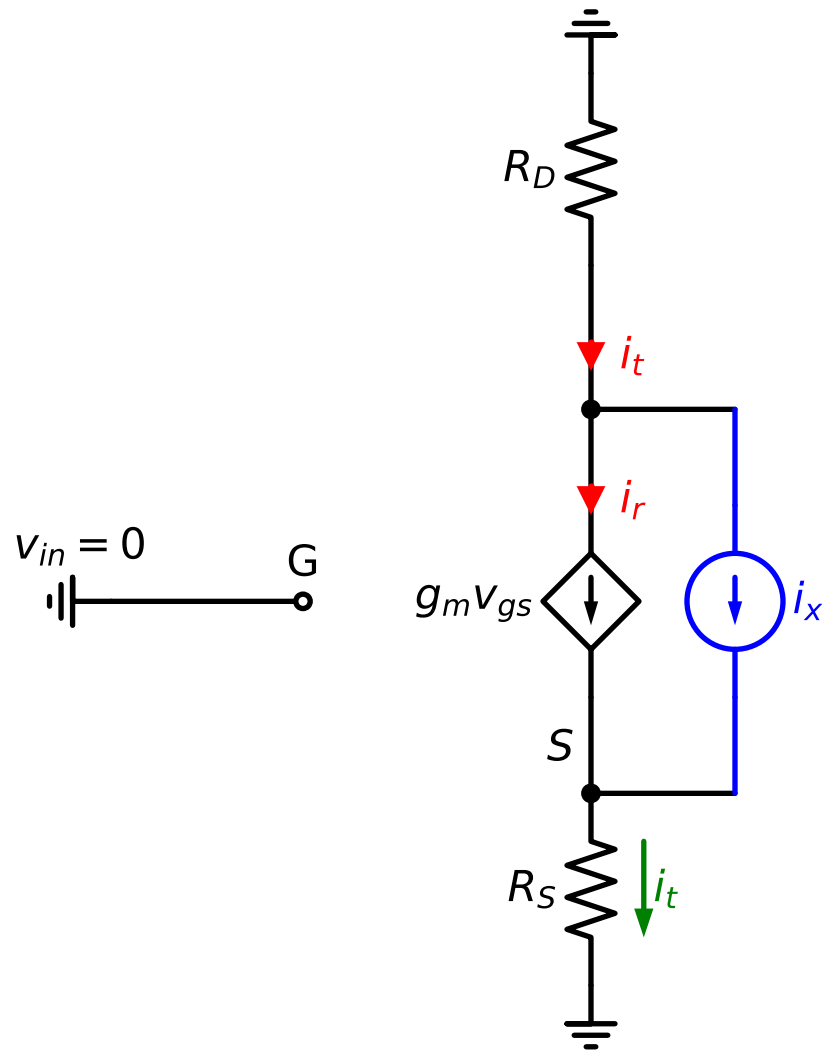


Figure 1: Small signal model to find the return ratio of  $g_m$