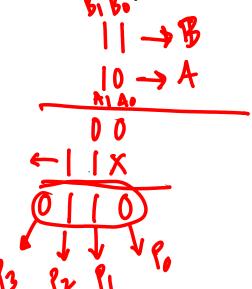
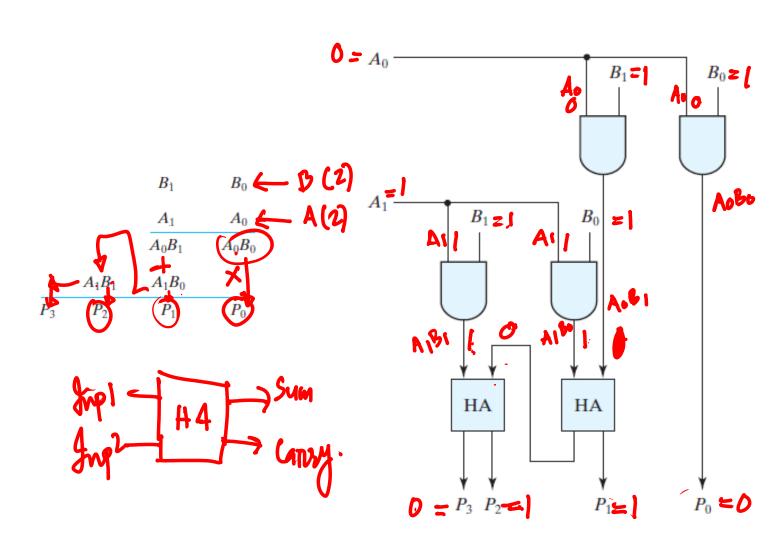
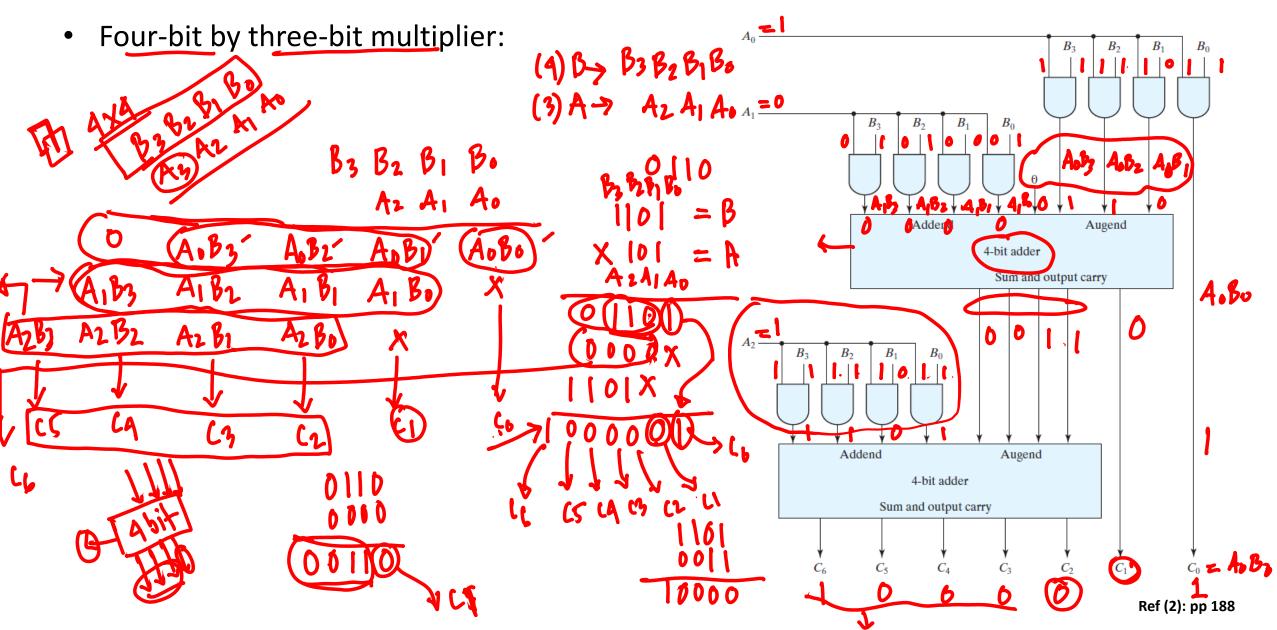
#### MULTIPLIER CIRCUIT

Two bit by two bit multiplier:

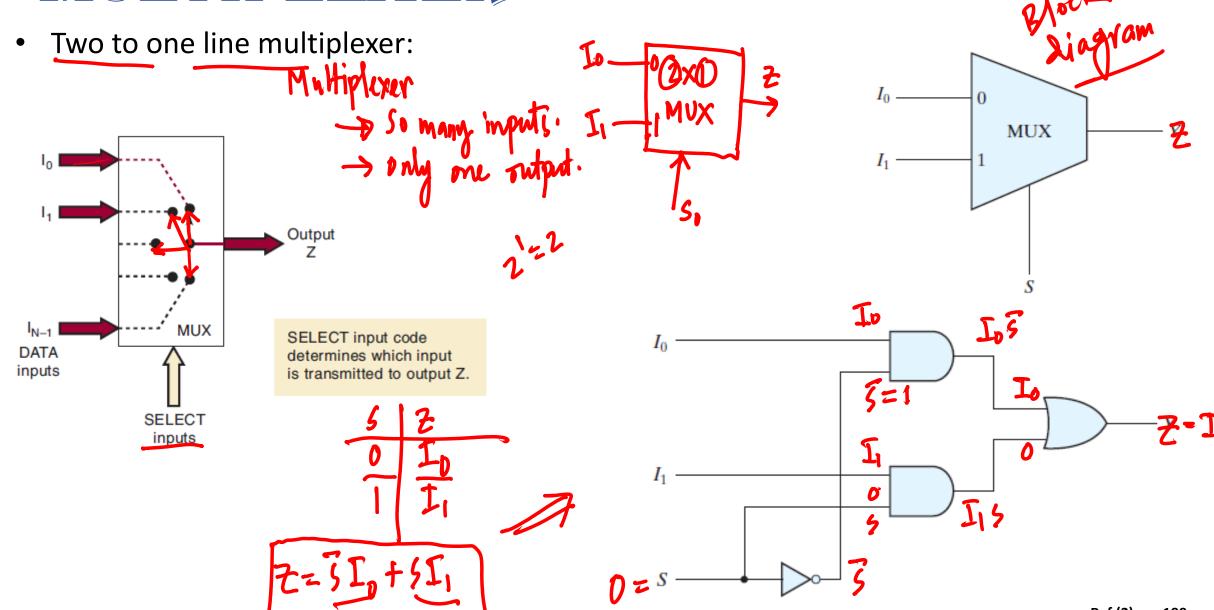




### MULTIPLIER CIRCUIT



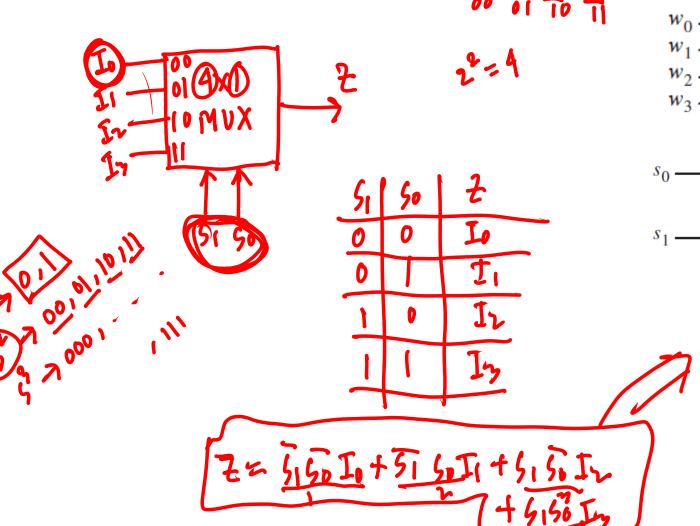
# MULTIPLEXER (Data selector).



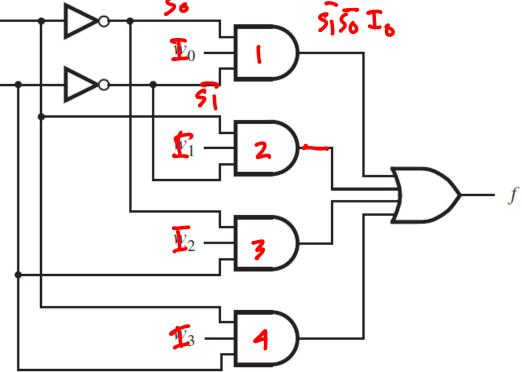
### MULTIPLEXER

• Four to one line multiplexer:





	$s_1$	$s_0$	f
$\frac{7}{1} = \frac{00}{01}$ $\frac{7}{1} = \frac{00}{10}$ $\frac{7}{1} = \frac{00}{10}$ $\frac{7}{1} = \frac{00}{11}$	0 0 1 1	0 1 0 1	$w_0 \\ w_1 \\ w_2 \\ w_3$



## MULTIPLEXER

Four to one line multiplexer by two to one line multiplexer :

