

```
.model nmos NMOS
.model pmos PMOS
```

7.5

For the gate shown in Fig. P7.5,

- Pull-up transistor ratio is 5/5
- pull-down transistor ratios are 100/5
- $V_{th} = 1.0$ V
- $\gamma = 0.4$ V^{1/2}
- $|2\phi_F| = 0.6$ V

- Identify the worst case input combination(s) for V_{OL} .
- Calculate the worst case value of V_{OL} . (Assume that all pull-down transistors have the same body bias and initially, that $V_{OL} = 5\% V_{DD}$.)

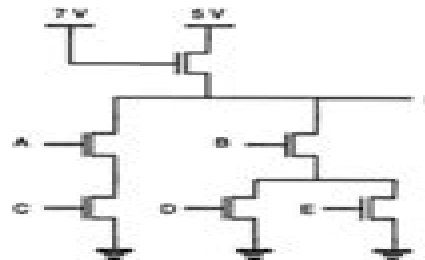


Figure P7.5

SOLUTION:

- The worst case input combinations are those that cause only one current path from output to ground. The combinations are listed in the following table.

$A = 1$	$C = 1$	$B = 0$	
$A = 1$	$C = 1$	$C = 0$	$E = 0$
$B = 1$	$D = 1$	$A = 0$	$E = 0$
$B = 1$	$D = 1$	$C = 0$	$E = 0$
$B = 1$	$E = 1$	$A = 0$	$D = 0$
$B = 1$	$E = 1$	$C = 0$	$D = 0$

- The worst case equivalent circuit can be represented by a simple inverter, with the driver $W/L=10$, load $W/L=1$. Both transistors are operating in linear region in this case because:
Driver: $V_{GS} = 5$, $V_{DS} = 0.25$

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Ayers John E



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