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(b) By using the gate array platform given in Fig. 1.30, implement the CMOS circuit as compactly as possible with the aspect ratio, which is the ratio of vertical dimension to horizontal dimension, as close to 1 as possible. Solution Manual for CMOS Digital Integrated Circuits Analysis and Design 4th Edition by Kang

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SOLUTION : (a) When  $V_{out} = V_{OL}$ ,  $V_{in} = V_{DD} = 1.2V$ , the driver transistor operates in linear region. Using Eq.(5.12) Since  $V_{OL}$  is small,  $V_{OL}/E_c L_n$  can be ignored. Using (5.17) Solve for  $W/L$ , (b) When  $V_{in} = V_{IL}$ , driver transistor operates in saturation region. Since  $V_{in}$  is slightly higher than  $V_{T0}$ ,  $V_{in} - V_{T0}$  can be ignored. Also  $v_{sat} = E_c / 2$ . Using Eq.(5.21)

### Solved > 5.1 Design a resistive-load inverter with $R = 2 \dots$

with the design, simulation and layout of CMOS analog and digital integrated circuits. Some outstanding features of the text are; 1) Software for layout of integrated circuits 2) Information and directions on submitting chips to MOSIS 3) tutorial presentation of material suitable for self study or as a University

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In digital integrated circuits, such as logic circuits, memories, and microprocessors which operate with electrical signals representing ones and zeroes, each mosfet behaves primarily as a switch, with its gate serving to open and close a channel connecting its source and drain.

### Highly conductive composite polysilicon gate for CMOS ...

Some ICs combine analog and digital MOSFET circuitry on a single mixed-signal integrated circuit, making the needed board space even smaller. This creates a need to isolate the analog circuits from the digital circuits on a chip level, leading to the use of isolation rings and silicon on insulator (SOI). Since MOSFETs require more space to ...

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