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## Question: Design a transistor-level circuit using CMOS only for the follo...

Design a transistor-level circuit using **CMOS only** for the following Boolean expressions. Also do the same using **NMOS logic**. [5+5] points

[Replace the letters U,V,W,X,Y & Z with the letters of your name sequentially

Cosider now,  $U=N$ ,  $V=A$ ,  $W=H$ ,  $X=I$ ,  $Y=S$ ,  $Z=L$ .

$$Y = (\overline{X+YZ})WV + U$$

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## Expert Answer

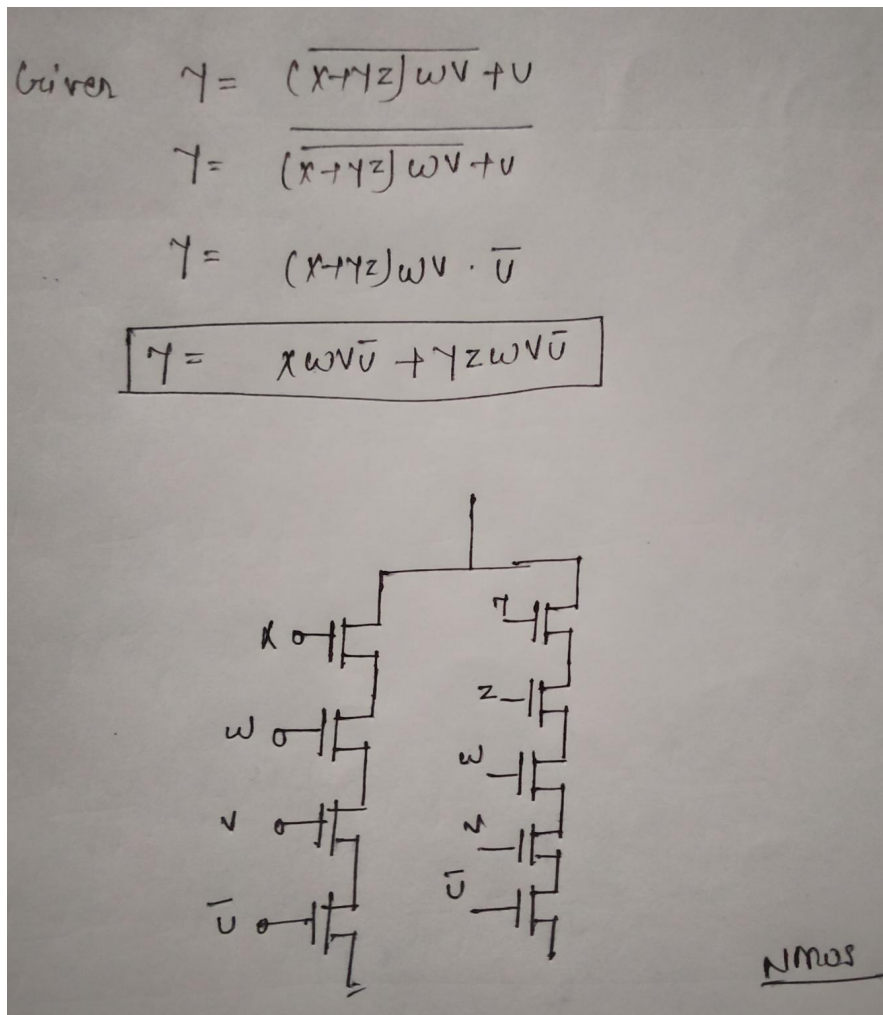


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Q: NMOS logic. [5+5] points  $S = (I + SL)HA + N$

A: [See answer](#) 100% (2 ratings)

Q: 2. In a home security system, the main door (V) of home is controlled by a logic operation with the help of RFID card, the Owner, Mrs. Owner, Security Guard and Guest have a designated RFID card - Owner with card W, Mrs. Owner with card X, security guard with card Y and guest with card Z. Whenever, any of the card is NOT inserted, Door remains Closed; when, all the cards are...

A: [See answer](#)

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