

HARRIS SOLUTION CHAPTER 2 (CORRECTION)

QUESTION 2.29

$$Y = \overline{C} \overline{D} (A \oplus B) + \overline{A} \overline{B}$$

SET $\overline{C} \overline{D}$ AS X

$$Y = X(A \oplus B) + \overline{A} \overline{B}$$

$$A \oplus B = \overline{A}B + A\overline{B}$$

$$Y = \overline{A}BX + A\overline{B}X + \overline{A} \overline{B}$$

$$Y = \overline{A}BX + \overline{B}(AX + \overline{A})$$

$$A + \overline{A}B = A + B$$

$$Y = \overline{A}BX + \overline{B}X + \overline{A} \overline{B}$$

$$Y = \overline{A}(BX + \overline{B}) + \overline{B}X$$

$$A + \overline{A}B = A + B$$

$$Y = \overline{A}X + \overline{B}X + \overline{A} \overline{B}$$

$$Y = \overline{A} \overline{C} \overline{D} + \overline{B} \overline{C} \overline{D} + \overline{A} \overline{B}$$