Assignment 5 (2.5.1,e)

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1 Boolean Expression For "e"

$$e = A.\overline{B}.\overline{C}.\overline{D} + A.B.\overline{C}.\overline{D} + \overline{A}.\overline{B}.C.\overline{D} + A.\overline{B}.C.\overline{D} + A.B.C.\overline{D} + A.\overline{B}.\overline{C}.D \quad (1)$$

2 K-Map For The Given Expression

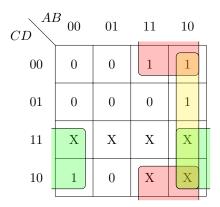


Figure 1: K-Map for e using don't care condition

3 Simplified Expression

$$e = A.\overline{B} + A.\overline{D} + \overline{B}.C$$