

Modern Digital System Design

ECE 2372 / Fall 2018 / Lecture 6

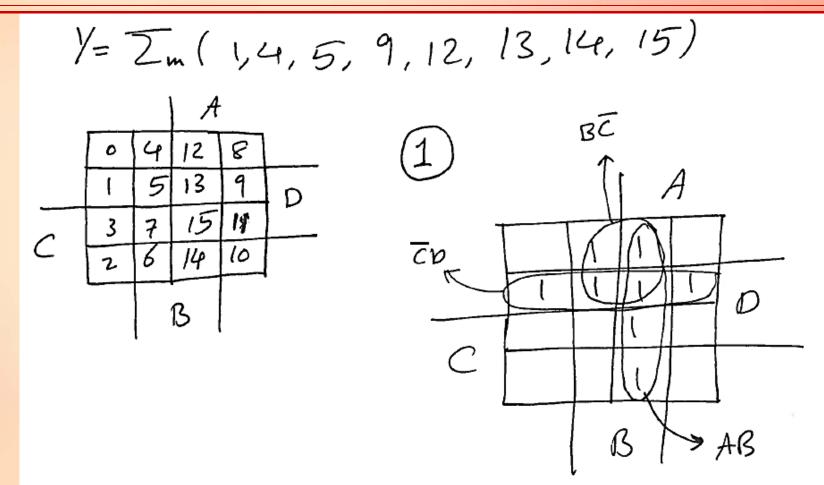
Texas Tech University Dr. Tooraj Nikoubin

Examples for Karnough map simplification



(SOP) 1

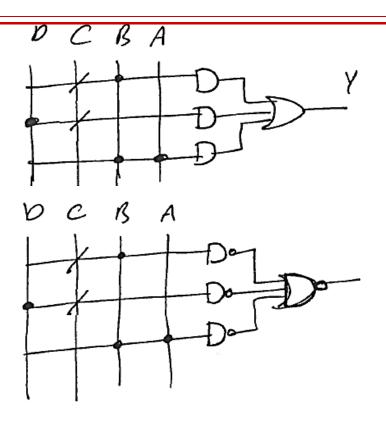






Y=BC+CO+AB

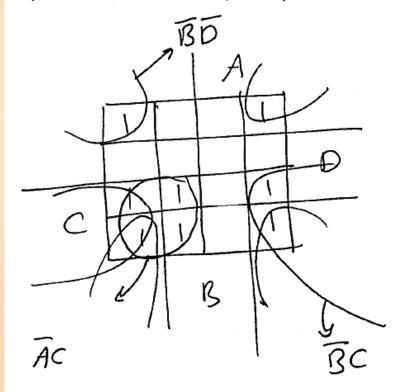






(SOP) 2

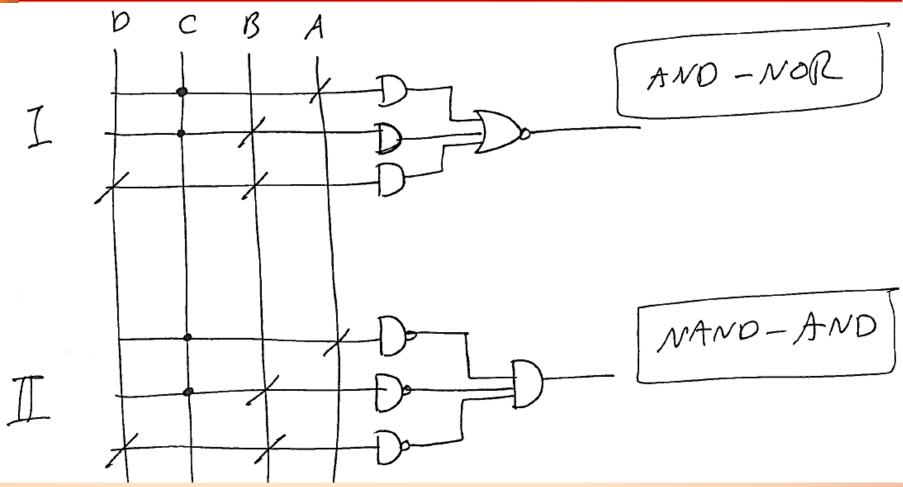




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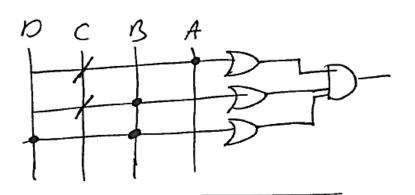


(POS) 1

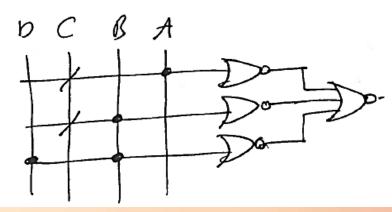








$$\gamma_{z} = \overline{(A+\overline{c})+(B+\overline{c})+(B+\overline{c})}$$





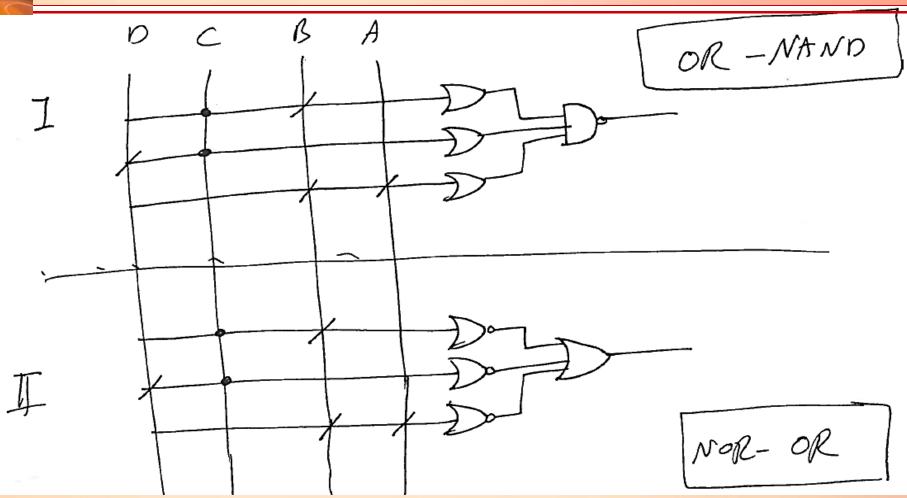
(POS) 2



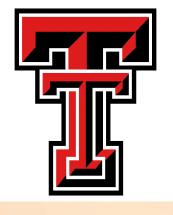
$$Y = I_{m}(1,4,5,9,12,13,14,15)$$
 $(B+C)$
 $(B+$

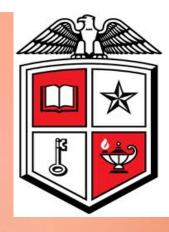






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Thank You