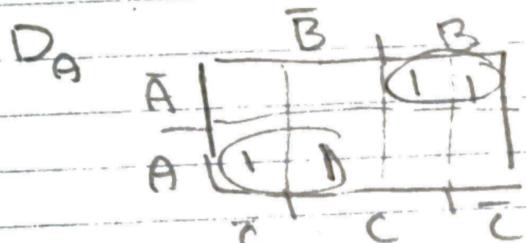


Alan Costee
Sreevidya Sreekantham

Project #11

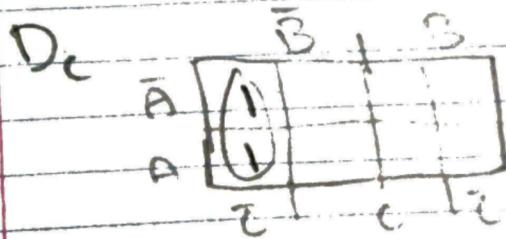
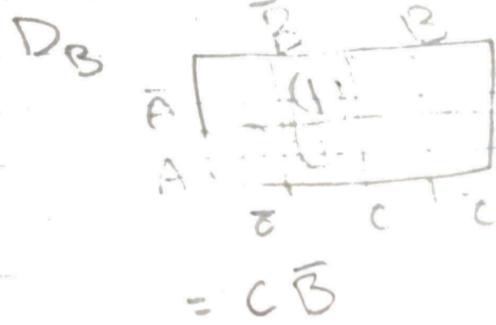
Problem #1

A	B	C	$A(E+I)$	$E(E+I)C(E+I)$	D_A	D_B	D_C
0	0	0	0	0	0	0	1
0	0	1	0	1	0	1	0
0	1	0	1	0	0	0	0
1	0	1	1	0	0	0	1
1	0	0	1	0	1	0	0
1	0	1	1	1	0	0	0
1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0



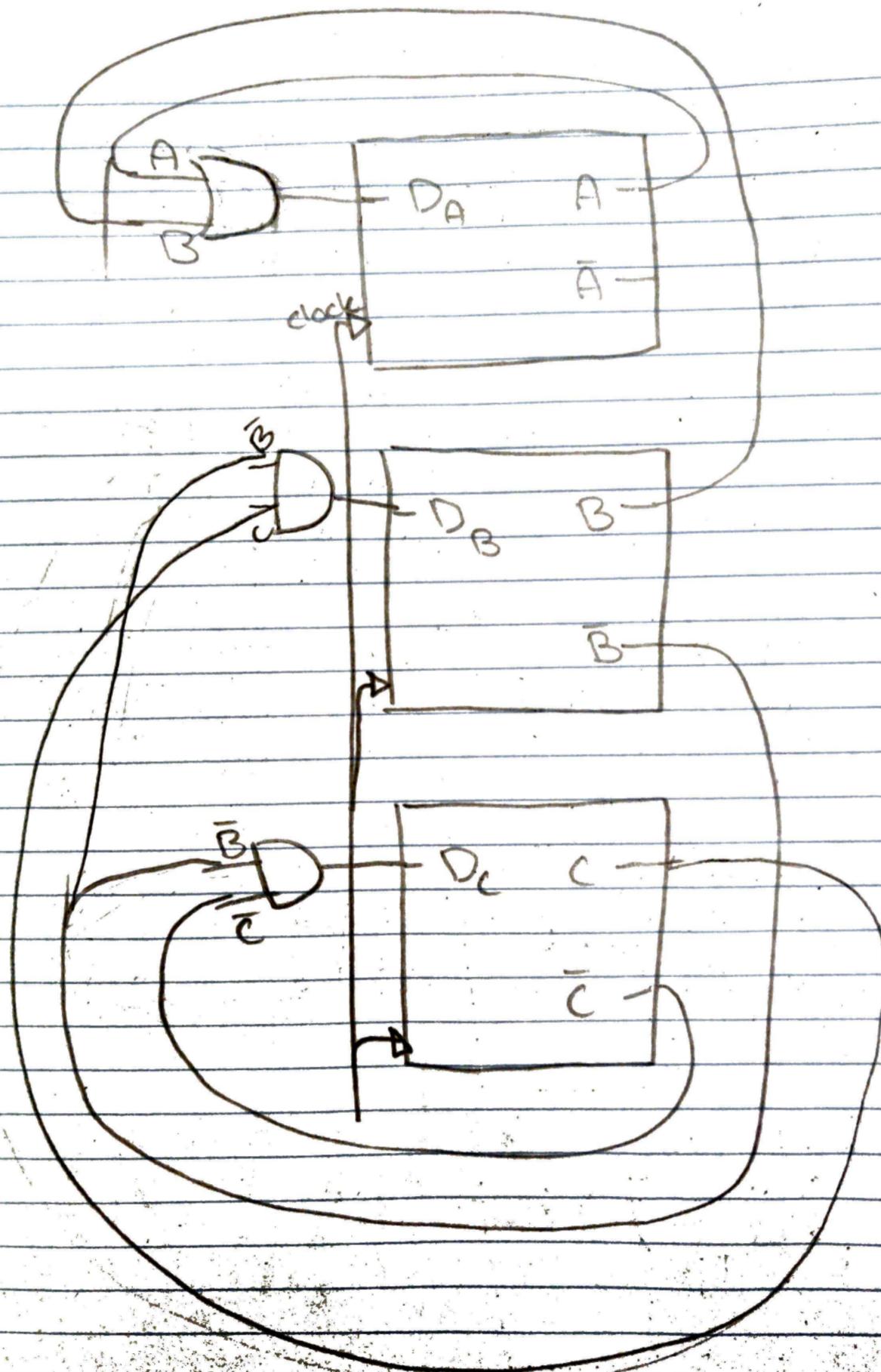
$$= A\bar{B} + \bar{A}B$$

$$= A \oplus B$$



$$= \bar{B}\bar{C}$$

Problem #1 cont:



Problem #2

Present

Next

$S_A B_A$

$S_B B_B$

$S_C B_C$

	A	B	C	A	B	C	$S_A B_A$	$S_B B_B$	$S_C B_C$		
0	0	0	0	0	1	0	0	d	10	0	0
1	0	0	1	d	d	d	d	d	d	d	d
2	0	1	0	0	1	1	0	d	d	0	10
3	0	1	1	1	0	1	1	0	0	1	d0
4	1	0	0	d	d	d	d	d	d	d	d
5	1	0	1	1	0	0	20	10	0	0	1
6	1	1	0	0	0	0	0	1	0	0	d
7	1	1	1	d	d	d	d	d	d	d	d

$$S_A \quad \bar{B} + B$$

\bar{A}	\bar{d}	d	d
A	d	\bar{d}	d
\bar{C}	C	C	\bar{C}

 $= C$

$$B_A \quad \bar{B} + B$$

\bar{A}	d	d	d
A	d	\bar{d}	d
\bar{C}	C	C	\bar{C}

 $= \bar{C}$

$$S_B \quad \bar{B} + B$$

\bar{A}	\bar{d}	d	d
A	d	\bar{d}	d
\bar{C}	C	C	\bar{C}

 $= \bar{B}$

$$B_B \quad \bar{B} + B$$

\bar{A}	d	\bar{d}	d
A	\bar{d}	d	\bar{d}
\bar{C}	C	C	\bar{C}

 $= CB + AB$

$$S_C \quad \bar{B} + B$$

\bar{A}	d	d	d
A	\bar{d}	d	d
\bar{C}	C	C	\bar{C}

 $= \bar{AB}$

$$B_C \quad \bar{B} + B$$

\bar{A}	d	d	d
A	\bar{d}	\bar{d}	d
\bar{C}	C	C	\bar{C}

 $= \bar{B}$

Problem # 2 cont

