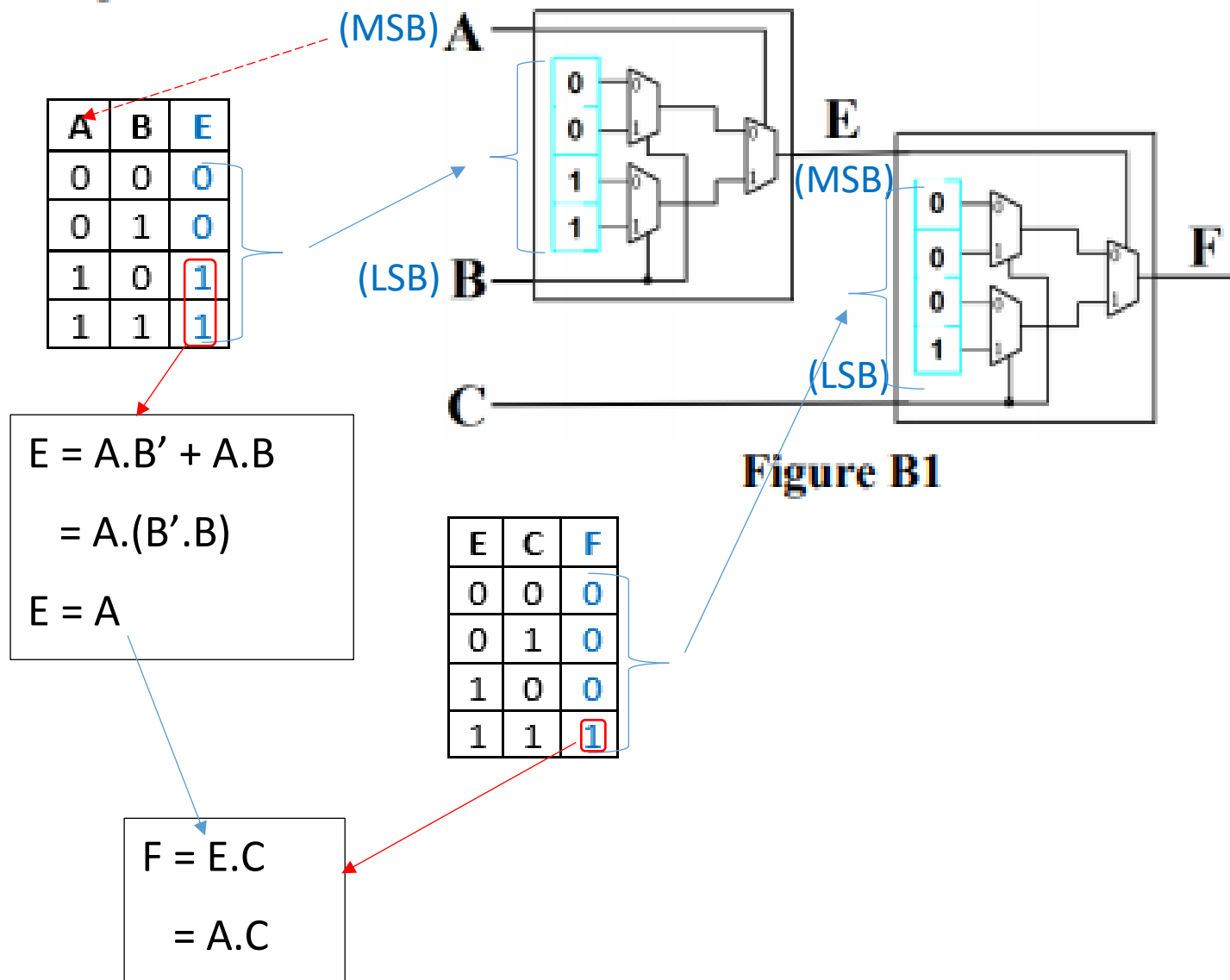
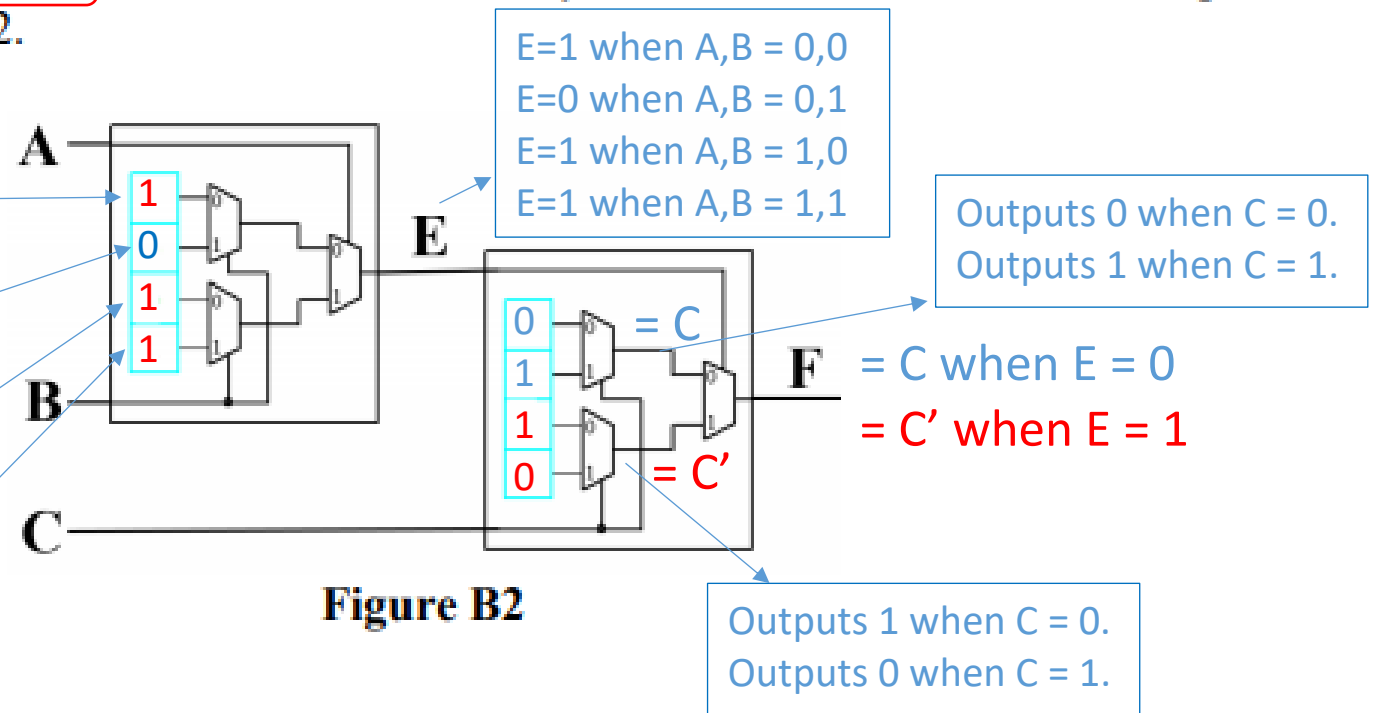


B1. Derive the simplified Boolean expressions for E & F in the lookup table shown in Figure B1.



B2. $F = AC' + B'C' + A'BC$. Fill in the data correctly in the SRAM cells of the lookup table shown in Figure B2.

A	B	C	F	Remarks
0	0	0	1	$F = C'$ when A,B = 00
0	0	1	0	(Inverted)
0	1	0	0	$F = C$ when A,B = 01
0	1	1	1	(No inversion)
1	0	0	1	$F = C'$ when A,B = 10
1	0	1	0	(Inverted)
1	1	0	1	$F = C'$ when A,B = 11
1	1	1	0	(Inverted)



Alternative solution:

