



HACETTEPE UNIVERSITY
ELECTRICAL AND ELECTRONICS ENGINEERING
ELE227 FUNDAMENTALS OF DIGITAL SYSTEMS LABORATORY
FALL 2019

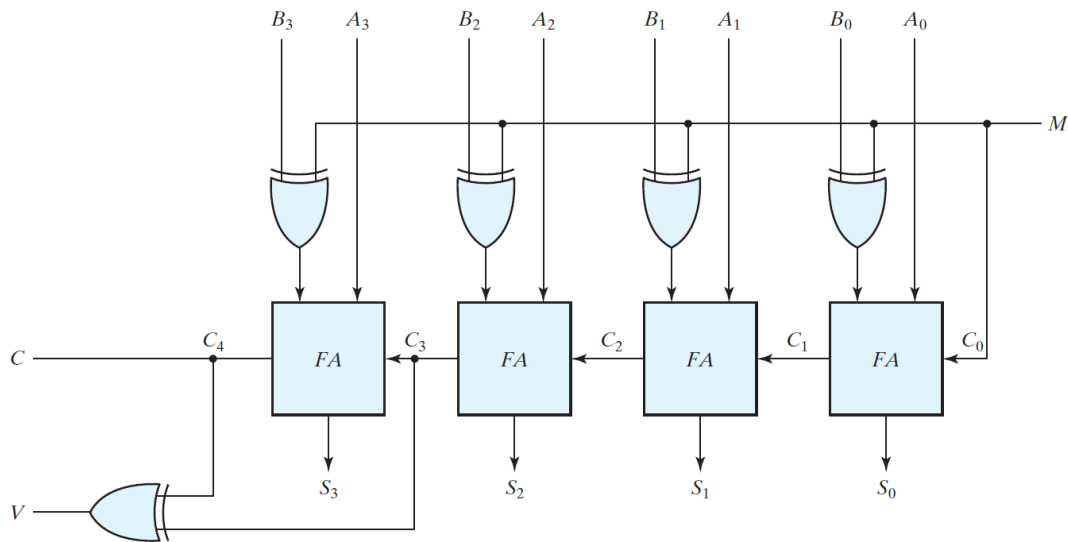
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Quiz 2:

Experiment 2 – Implementation of Combinational Circuits with VHDL

Q)



The adder–subtractor circuit in the figure above has the following values for mode input M and data inputs A and B . In each case, determine the values of the four SUM outputs, the carry C , and overflow V .

M	A	B	SUM	C	V
0	0111	0110			
0	1000	1001			
1	1100	1000			
1	0101	1010			
1	0000	0001			