CHAPTER 2

2-1.*   a) $\overline{XYZ} = \overline{X} + \overline{Y} + \overline{Z}$

Verification of DeMorgan's Theorem

X	Y	Z	XYZ	$\overline{XYZ}$	$\overline{X}+\overline{Y}+\overline{Z}$
0	0	0	0	1	1
0	0	1	0	1	1
0	1	0	0	1	1
0	1	1	0	1	1
1	0	0	0	1	1
1	0	1	0	1	1
1	1	0	0	1	1
1	1	1	1	0	0

b) $X + YZ = (X + Y) \cdot (X + Z)$

The Second Distributive Law

X	Y	Z	YZ	X+YZ	X+Y	X+Z	(X+Y)(X+Z)
0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0
0	1	0	0	0	1	0	0
0	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1
1	0	1	0	1	1	1	1
1	1	0	0	1	1	1	1
1	1	1	1	1	1	1	1

c) $\overline{X}Y + \overline{Y}Z + X\overline{Z} = X\overline{Y} + Y\overline{Z} + \overline{X}Z$

X	Y	Z	$\overline{X}Y$	$\overline{Y}Z$	$X\overline{Z}$	$\overline{X}Y+\overline{Y}Z+X\overline{Z}$	$X\overline{Y}$	$Y\overline{Z}$	$\overline{X}Z$	$X\overline{Y}+Y\overline{Z}+\overline{X}Z$
0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	1	0	0	1	1
0	1	0	1	0	0	1	0	1	0	1
0	1	1	1	0	0	1	0	0	1	1
1	0	0	0	0	1	1	1	0	0	1
1	0	1	0	1	0	1	1	0	0	1
1	1	0	0	0	1	1	0	1	0	1
1	1	1	0	0	0	0	0	0	0	0

2-2.*   a) $\overline{\overline{X}}\,\overline{Y} + \overline{X}\overline{Y} + XY$ $=$ $\overline{X} + Y$

$= (\overline{X}Y + \overline{X}\overline{Y}) + (\overline{X}Y + XY)$

$= \overline{X}(Y + \overline{Y}) + Y(X + \overline{X})$

$= \overline{X} + Y$

b) $\overline{A}B + \overline{B}\overline{C} + AB + \overline{B}C$ $=$ 1

$= (\overline{A}B + AB) + (\overline{B}\overline{C} + \overline{B}C)$

$= B(A + \overline{A}) + \overline{B}(C + \overline{C})$

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Fundamentals of Digital Logic and Microcomputer Design M. Rafiquzzaman,2005-07-08 Fundamentals of Digital Logic and Microcomputer Design haslong been hailed for its clear and simple presentation of theprinciples and basic tools required to design typical digitalsystems such as microcomputers In this Fifth Edition the authorfocuses on computer design at three levels the device level thelogic level and the system level Basic topics are covered suchas number systems and Boolean algebra combinational and sequentiallogic design as well as more advanced subjects such as assemblylanguage programming and microprocessor based system design Numerous examples are provided throughout the text Coverage includes Digital circuits at the gate and flip flop levels Analysis and design of combinational and sequentialcircuits Microcomputer organization architecture and programmingconcepts Design of computer instruction sets CPU memory and I O System design features associated with popular microprocessorsfrom Intel and Motorola Future plans in microprocessor development An instructor s manual available upon request Additionally the accompanying CD ROM contains step by stepprocedures for installing and using Altera Quartus II software MASM 6 11 8086 and 68asmsim 68000 provides valuablesimulation results via screen shots Fundamentals of Digital Logic and Microcomputer Design is anessential reference that will provide you with the fundamentaltools you need to design typical digital systems   **Subject Guide to Books in**

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