HW 03 OrKom - 13521024_Ahmad Nadil

Practice Problem 2.47

Bits	e	E	2^E	f	M	$2^E \times M$	V	Decimal
0 00 00			l	0/4	0/4	0/4	_0_	00
0 00 01	ഗ	0		1/9	1/4	1/4	1/4	025
0 00 10	O	0	\	2/4	2/9	2/4	1/2	05
0 00 11	Ð	0		3/4	3/9	3/9	3/9	075
0 01 00		0	(0/9	4/9	9/9	1	٥, ا
0 01 01	1	0	1	$\frac{1}{4}$	<u>5</u>	<u>5</u>	$\frac{5}{4}$	1.25

Bits	e	E	2^E	f	M	$2^E\times M$	V	Decimal
0 01 10		0	L	2/9	6/4	6/9	3/2	115
0 01 11	1	\mathcal{O}		3/4	7/9	7/9	7/9	1,75
0 10 00	2_	1	2	0/4	9/9	8/9	2	2,0
0 10 01	2	1	2	1/4	5/9	10/9	5/2	25
0 10 10	2	1	2	2/9	6/9	12/9	3	3.0
0 10 11	2	١	2	3/9	7/9	19/9	7/2	35
0 11 00	_	_	_	_	_	_	00	_
0 11 01	_	_	_	_	_	_	NAN	_
0 11 10	_	_	_	_	_	_	Nal	_
0 11 11	_	_	_	_	_	_	NaN	_

Practice Problem 2.50

Show how the following binary fractional values would be rounded to the nearest half (1 bit to the right of the binary point), according to the round-to-even rule. In each case, show the numeric values, both before and after rounding.

- A. 10.111₂
- B. 11.010₂
- C. 11.000₂
- D. 10.110₂