Source words	Probability	Code word	(Length) · (Probability)	
X_1	0.2500	00	2 (0.25)	= 0.50
X_2	0.2500	01	2 (0.25)	= 0.50
		A -------- A'		
X_3	0.1250	100	3 (0.125)	= 0.375
X_4	0.1250	101	3 (0.125)	= 0.375
X_5	0.0625	1100	4 (0.0625)	= 0.25
X_6	0.0625	1101	4 (0.0625)	= 0.25
X_7	0.0625	1110	4 (0.0625)	= 0.25
X_8	0.0625	1111	4 (0.0625)	= 0.25
			Average word length = 2.75	

Fig_12-10

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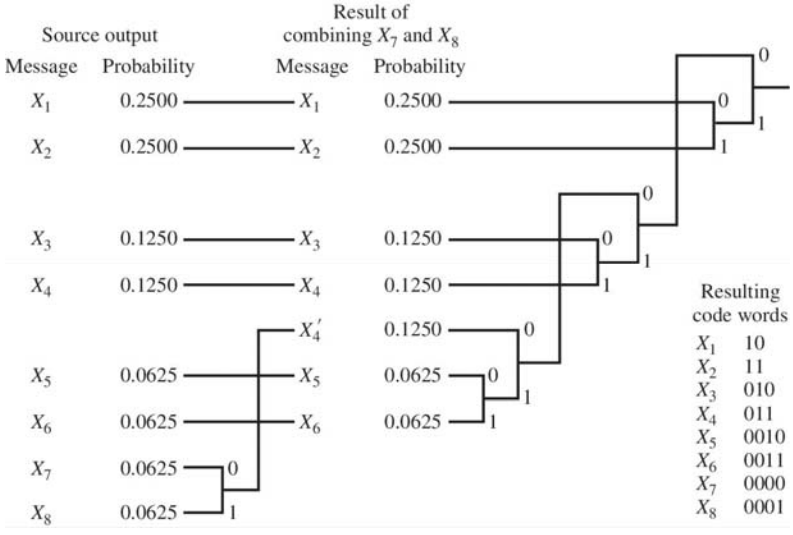

Fig_12-11

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