

Partial solution to the review problem of Dec. 5, 2018

Present state $y_2y_1$	Next state		Output $z$
	$w = 0$	$w = 1$	
	$Y_2Y_1$	$Y_2Y_1$	
00	10	11	0
01	01	00	0
10	11	00	0
11	10	01	1

Present state $y_2y_1$	Flip-flop inputs				Output $z$
	$w = 0$		$w = 1$		
	$J_2K_2$	$J_1K_1$	$J_2K_2$	$J_1K_1$	
00	1d	0d	00	1d	0
01	00	d0	0d	00	0
10	d0	00	00	0d	0
11	00	d1	d1	d0	1

$$J_2 = \bar{y}_1$$

$$K_2 = w$$

$$J_1 = \bar{w}y_2 + w\bar{y}_2$$

$$K_1 = J_1$$

$$z = y_1y_2$$