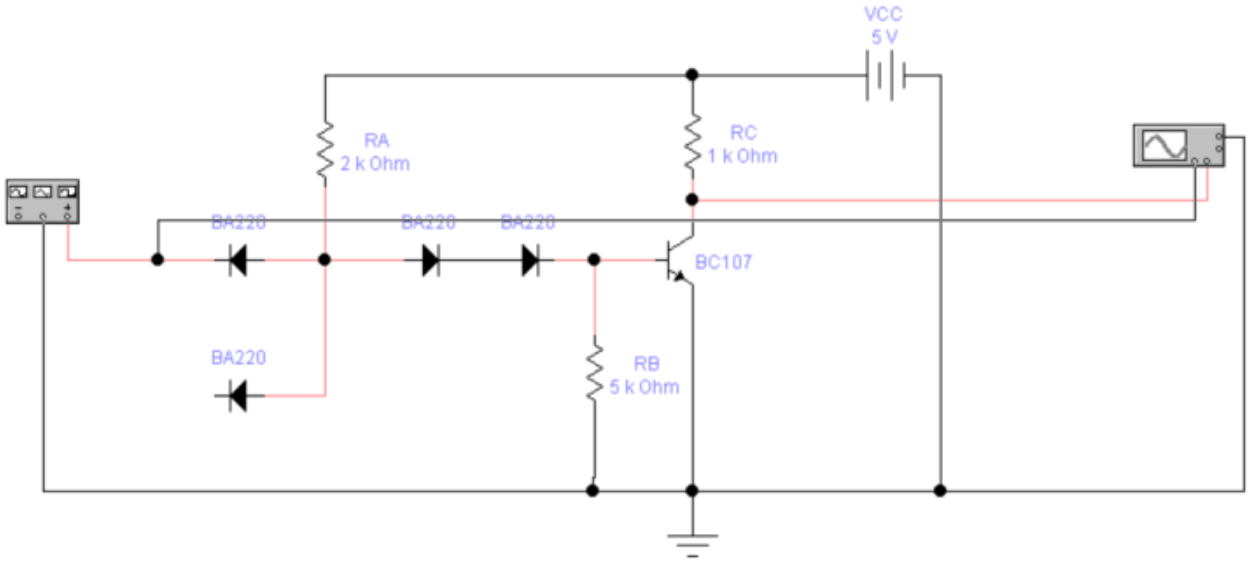
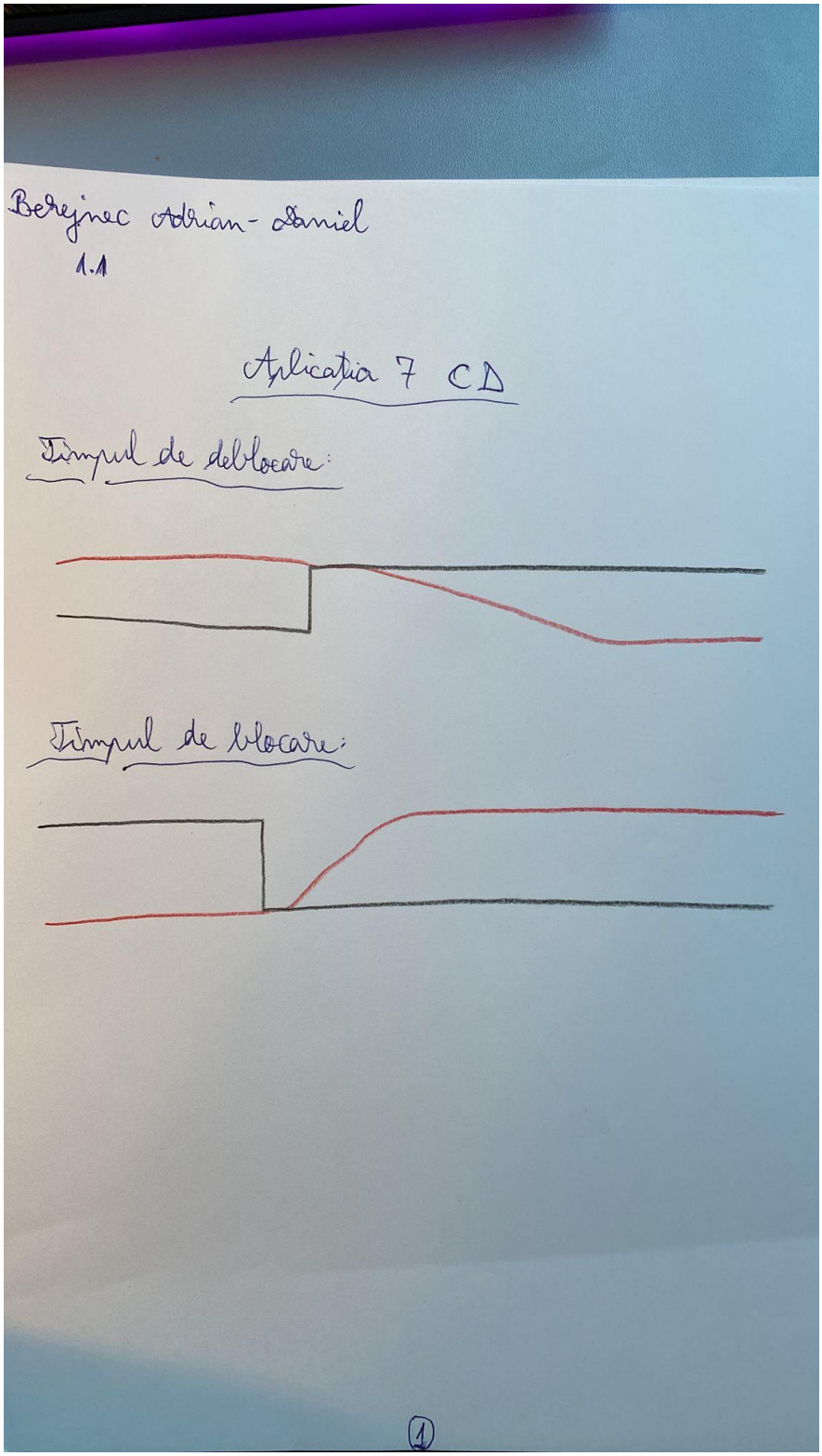
Berejnec Adrian-Daniel 1.1

Aplicatia 7 CD

Circuitul :



Diagrame de timp:



Masuratorile pentru cei 2 timpi pentru toate combinatiile de rezistente:

R_{A1} = 1K	R_{B1} = 3K	R_{C1} = 0,6K	t_{db} = 15 ns	t_{bl} = 175 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 14 ns	t_{bl} = 177 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 13 ns	t_{bl} = 180 ns	t_{db} scade, t_{bl} creste
	R_{B2} = 6,3K	R_{C1} = 0,6K	t_{db} = 15 ns	t_{bl} = 286 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 14,5 ns	t_{bl} = 293 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 12,5 ns	t_{bl} = 300 ns	t_{db} scade, t_{bl} creste
	R_{B3} = 10K	R_{C1} = 0,6K	t_{db} = 14 ns	t_{bl} = 438 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 13,8 ns	t_{bl} = 440 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 12,5 ns	t_{bl} = 445 ns	t_{db} scade, t_{bl} creste
	R_{B4} = 20K	R_{C1} = 0,6K	t_{db} = 16 ns	t_{bl} = 720 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 14 ns	t_{bl} = 733 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 13 ns	t_{bl} = 755 ns	t_{db} scade, t_{bl} creste
R_{A2} = 2K	R_{B1} = 3K	R_{C1} = 0,6K	t_{db} = 30 ns	t_{bl} = 168 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 28 ns	t_{bl} = 172 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 26 ns	t_{bl} = 173 ns	t_{db} scade, t_{bl} creste
	R_{B2} = 6,3K	R_{C1} = 0,6K	t_{db} = 29 ns	t_{bl} = 260 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 27 ns	t_{bl} = 277 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 24 ns	t_{bl} = 290 ns	t_{db} scade, t_{bl} creste
	R_{B3} = 10K	R_{C1} = 0,6K	t_{db} = 29 ns	t_{bl} = 450 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 28 ns	t_{bl} = 452 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 26 ns	t_{bl} = 456 ns	t_{db} scade, t_{bl} creste
	R_{B4} = 20K	R_{C1} = 0,6K	t_{db} = 29 ns	t_{bl} = 808 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 27 ns	t_{bl} = 832 ns	t_{db} scade, t_{bl} creste

		R_{C3} = 2K	t_{db} = 26 ns	t_{bl} = 835 ns	t_{db} scade, t_{bl} creste
R_{A3} = 5,33K	R_{B1} = 3K	R_{C1} = 0,6K	t_{db} = 115 ns	t_{bl} = 127 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 100 ns	t_{bl} = 147 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 89 ns	t_{bl} = 163 ns	t_{db} scade, t_{bl} creste
	R_{B2} = 6,3K	R_{C1} = 0,6K	t_{db} = 82 ns	t_{bl} = 230 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 73 ns	t_{bl} = 270 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 71 ns	t_{bl} = 292 ns	t_{db} scade, t_{bl} creste
	R_{B3} = 10K	R_{C1} = 0,6K	t_{db} = 85 ns	t_{bl} = 462 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 74 ns	t_{bl} = 476 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 67 ns	t_{bl} = 483 ns	t_{db} scade, t_{bl} creste
	R_{B4} = 20K	R_{C1} = 0,6K	t_{db} = 76 ns	t_{bl} = 770 ns	t_{db} scade, t_{bl} creste
		R_{C2} = 1K	t_{db} = 73 ns	t_{bl} = 884 ns	t_{db} scade, t_{bl} creste
		R_{C3} = 2K	t_{db} = 71 ns	t_{bl} = 932 ns	t_{db} scade, t_{bl} creste

Dupa aceste masuratori, putem spune ca timpul de blocare este mai mare decat timpul de deblocare. Timpul de blocare creste odata cu cresterea rezistentei, in timp ce timpul de deblocare scade pe masura ce rezistenta scade.