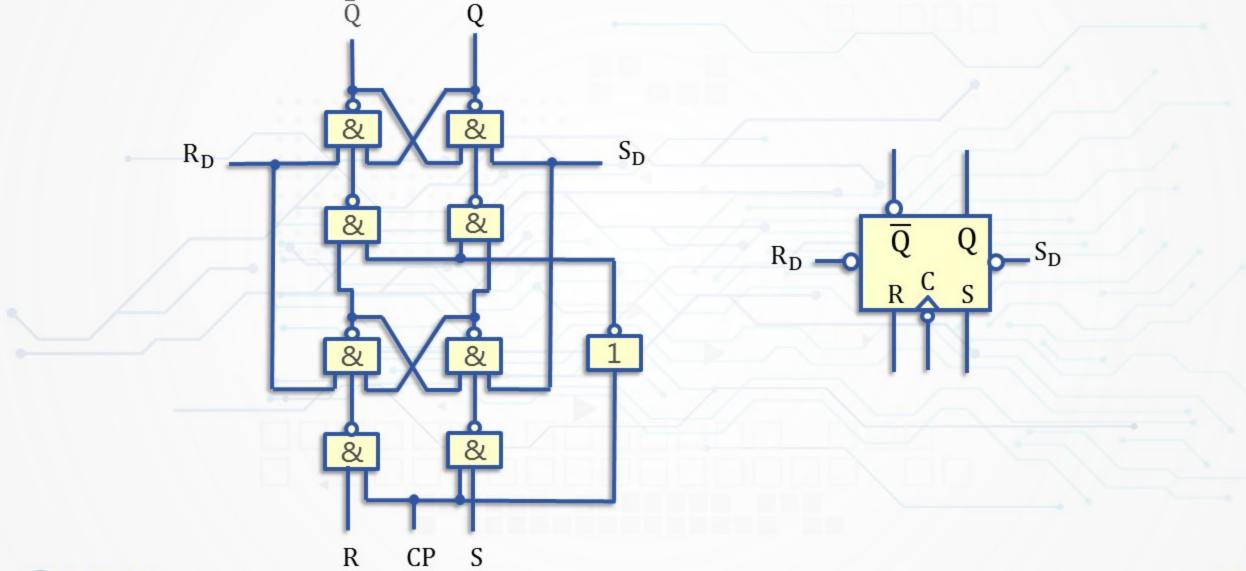
数季电路与逻辑设计

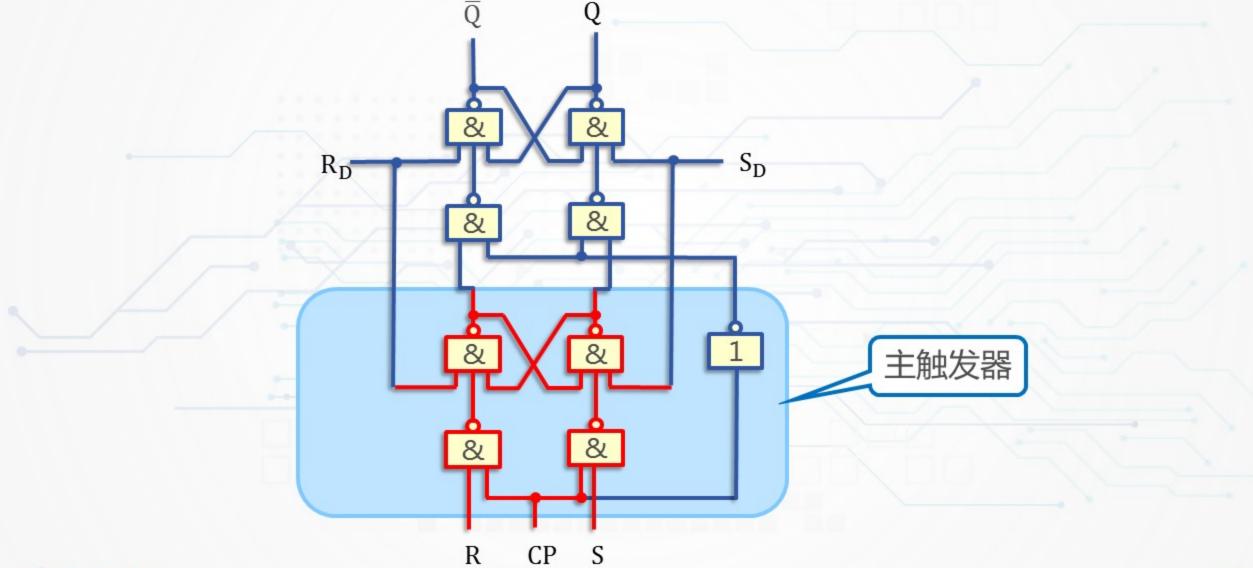
Digital circuit and logic design

● 第三章 集成门电路与触发器

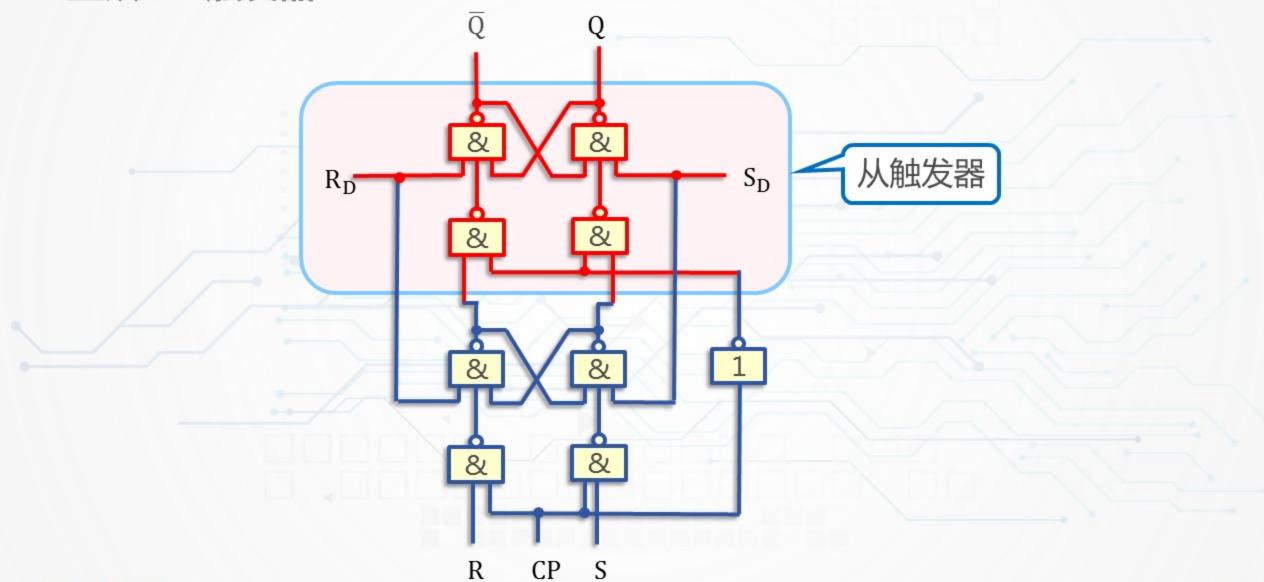
主讲教师 赵贻竹



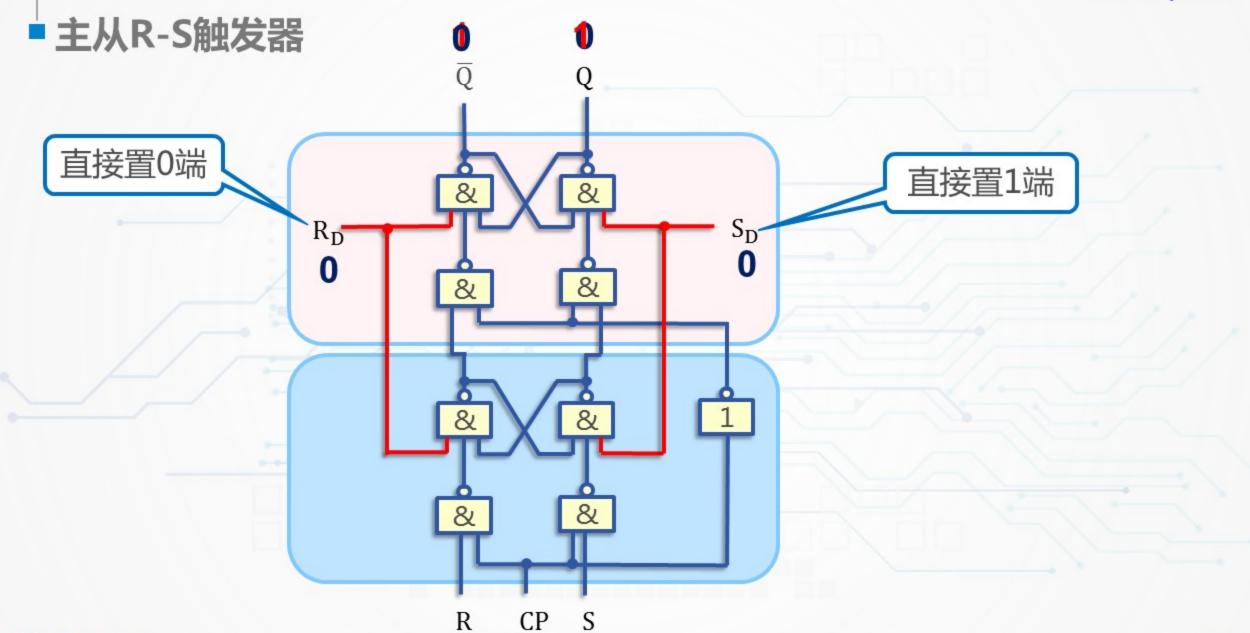


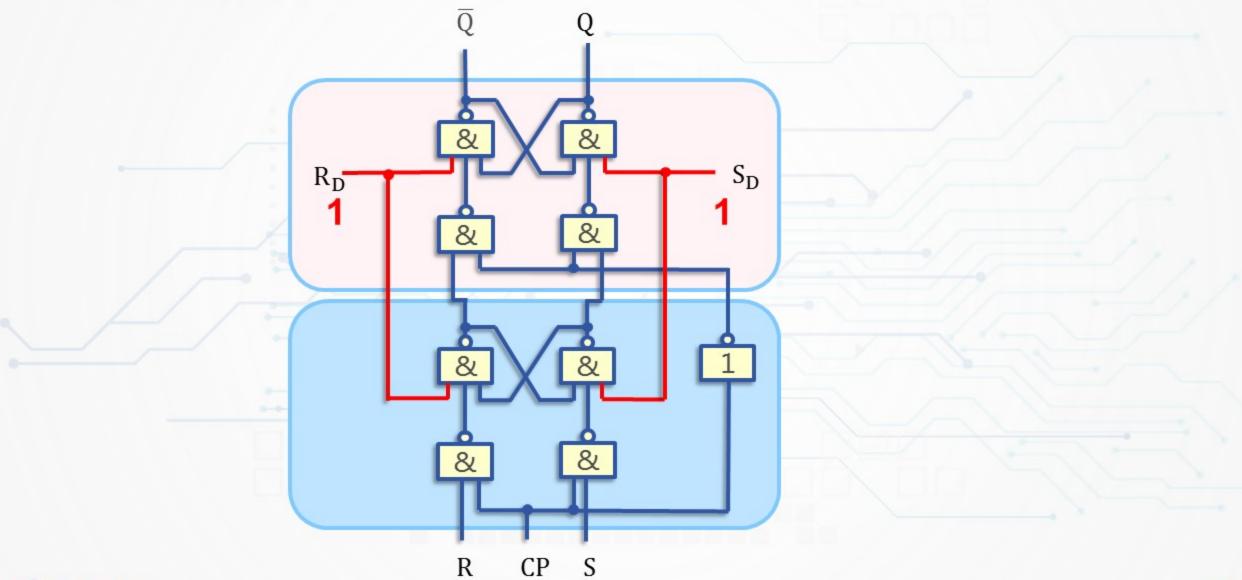




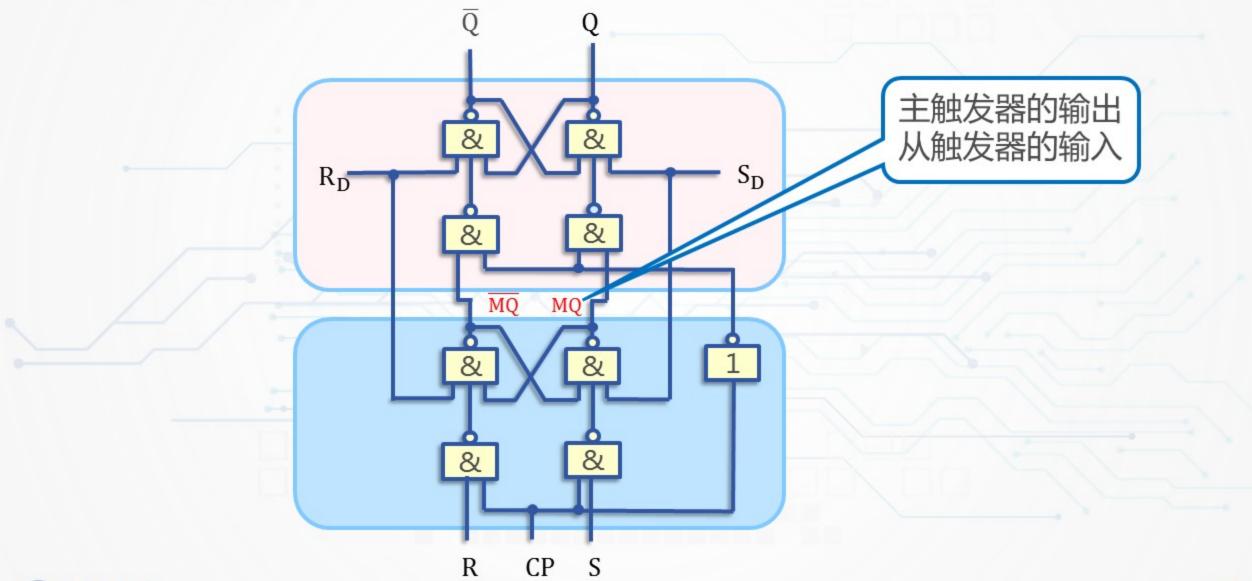


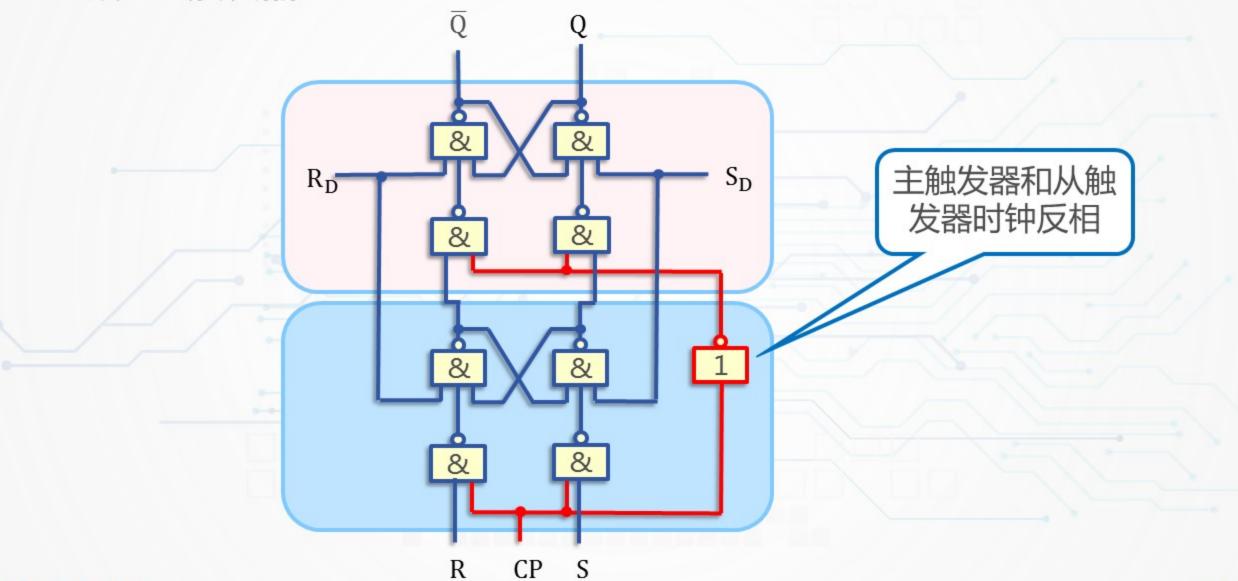


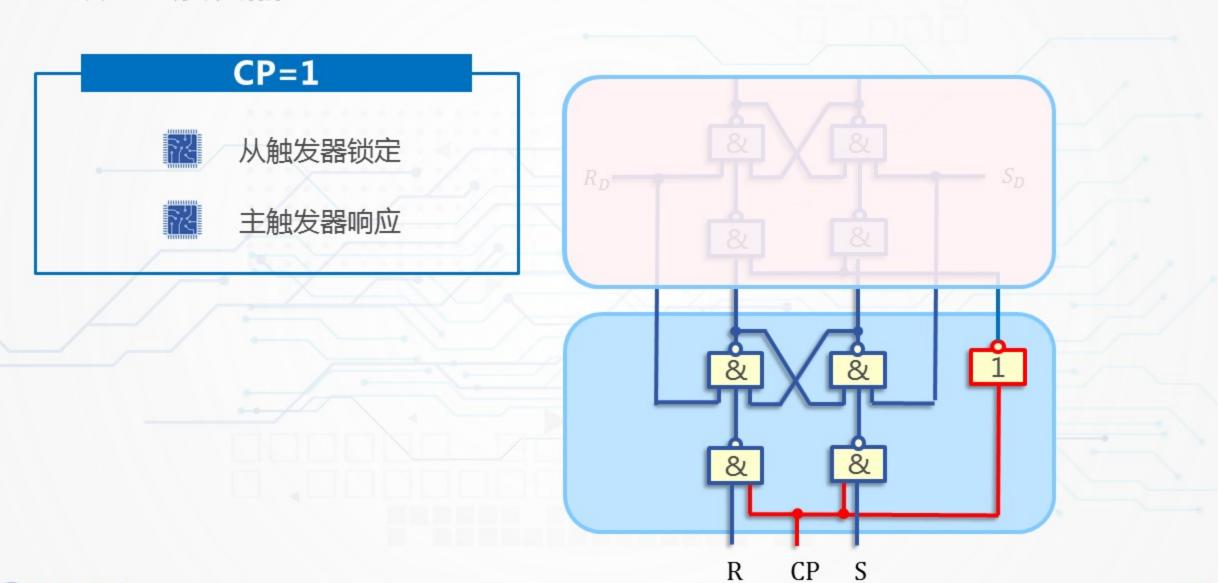




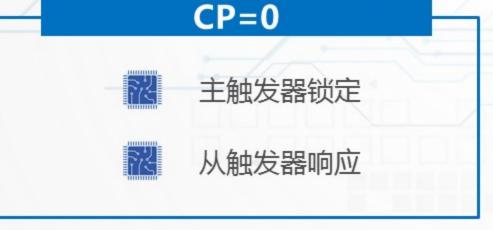


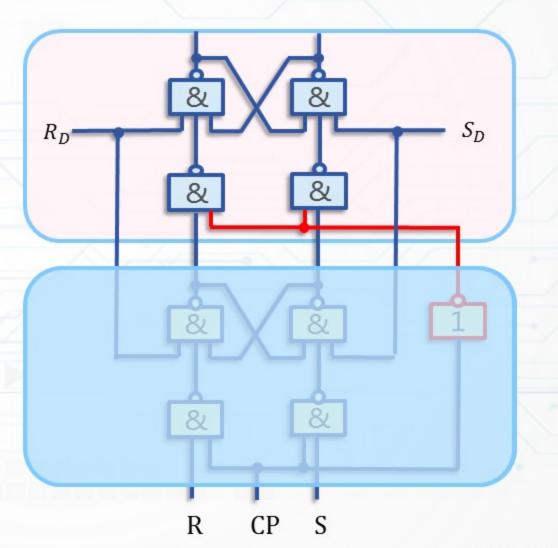






CP=1 从触发器锁定 主触发器响应









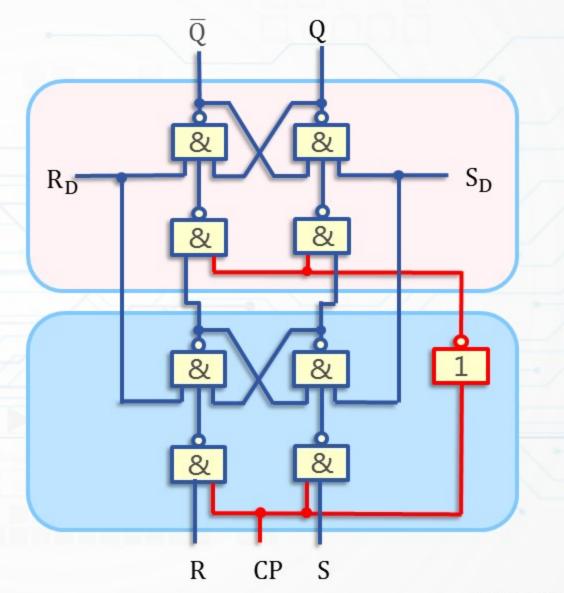
总结



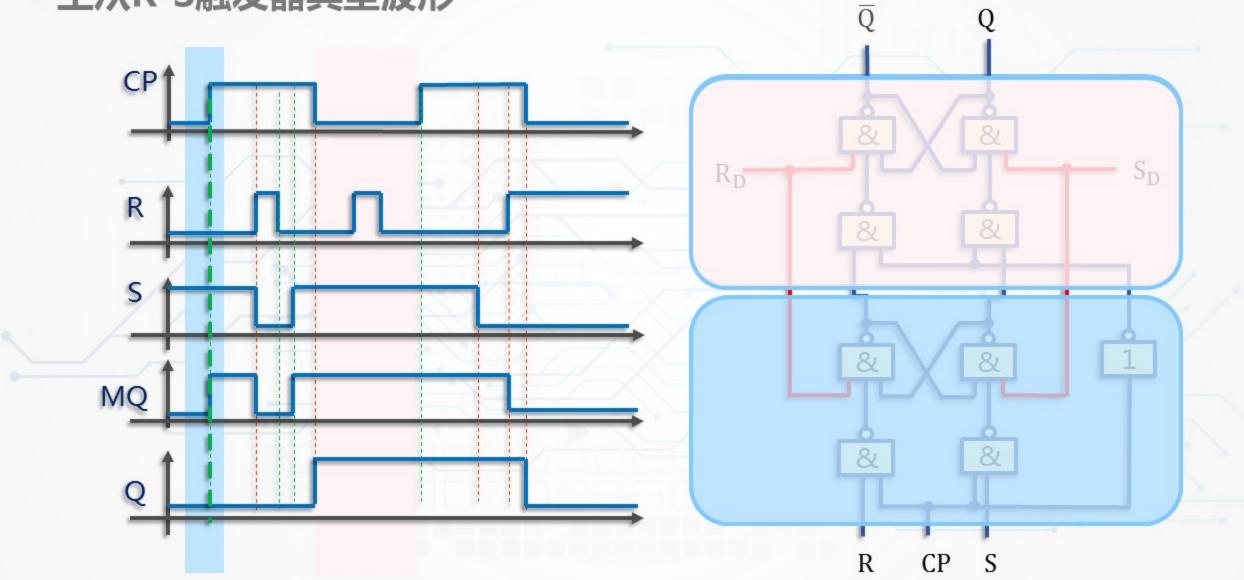
前沿采样



后沿定局



■主从R-S触发器典型波形









总结



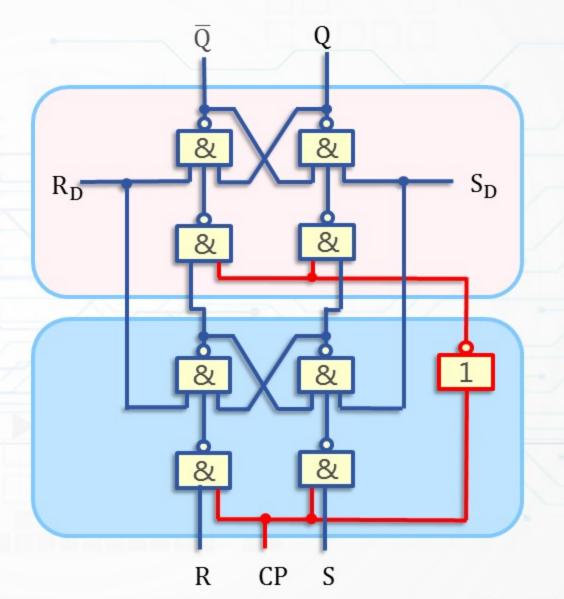
前沿采样



后沿定局

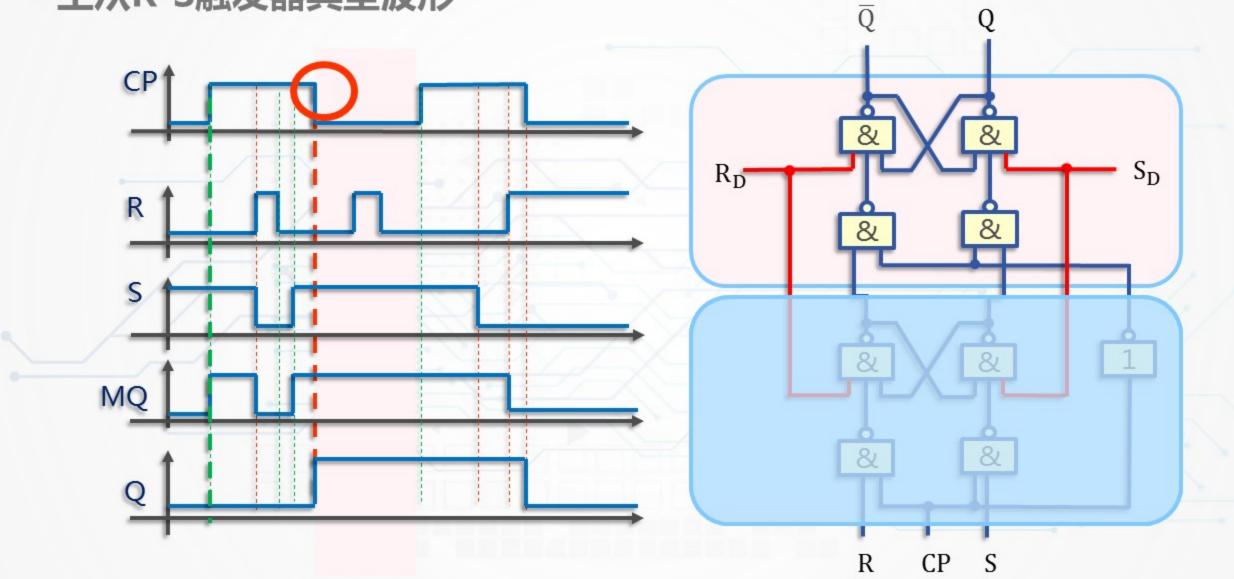


状态变化是在时钟脉冲的后沿





■主从R-S触发器典型波形







总结



前沿采样

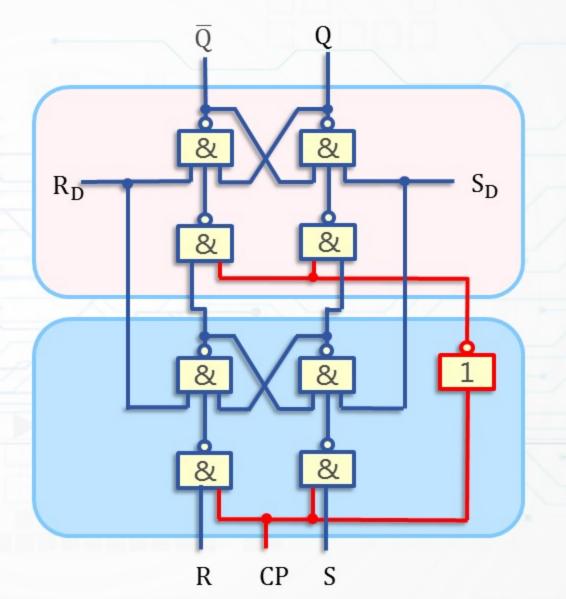


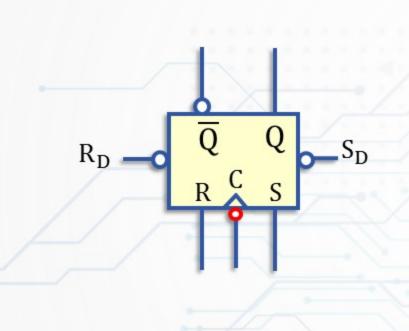
后沿定局

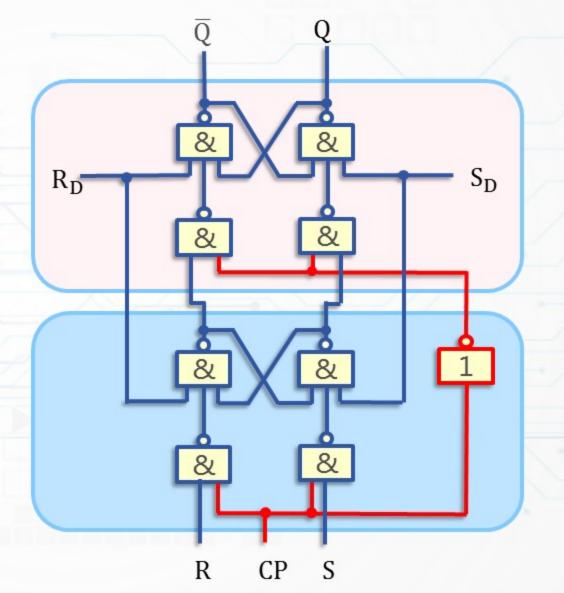


状态变化是在时钟脉冲的后沿

无"空翻"











功能

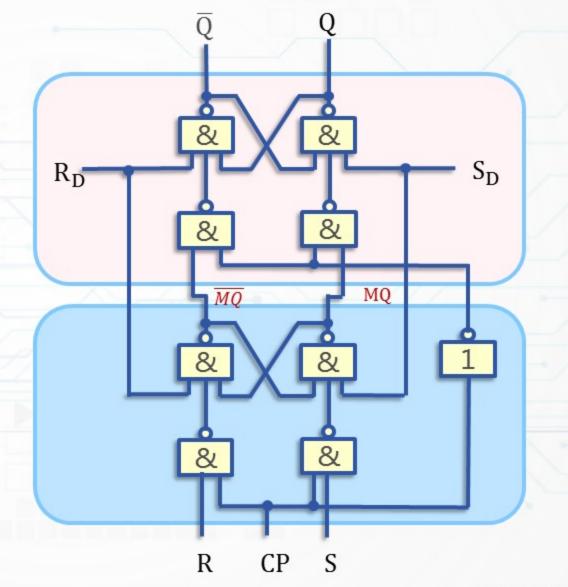


主触发器输出



从触发器输入

R	S	\overline{MQ}	MQ
0	0	不	变
0	1	0	1
1	0	1	0
1	1	Х	







功能

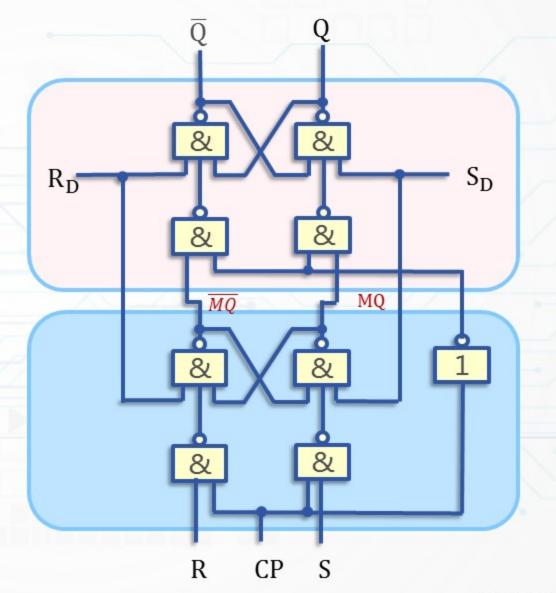


主触发器输出



从触发器输入

R	S	\overline{MQ}	MQ	Q
0	0	不	变	不 变
0	1	0	1	1
1	0	1	0	0
1	1	Х		Х







功能

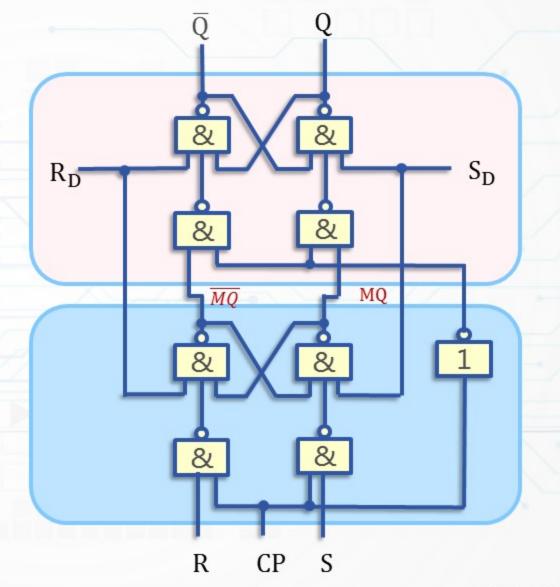


主触发器输出



从触发器输入

R	S		Q
0	0	× -	不 变
0	1	/	1
1	0		0
1	1	$\overline{}$	Х







功能



主触发器输出

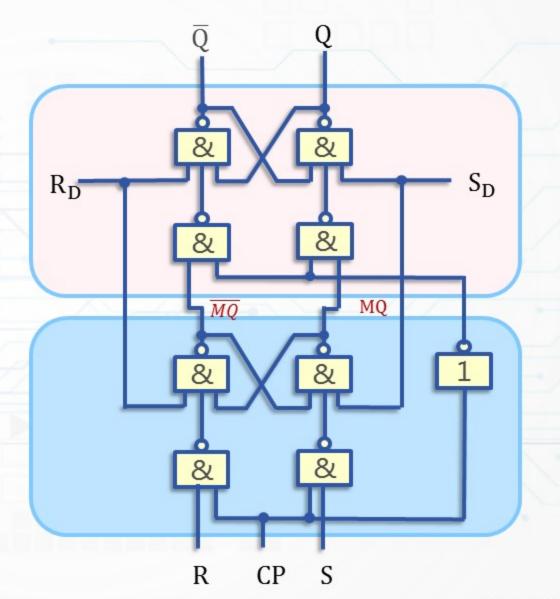


从触发器输入

R	S	Q
0	0	不 变
0	1	1
1	0	0
1	1	Х

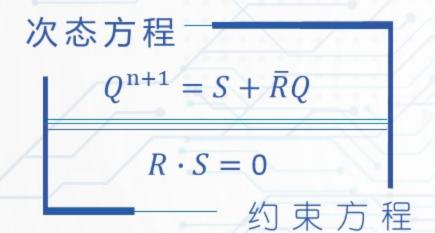


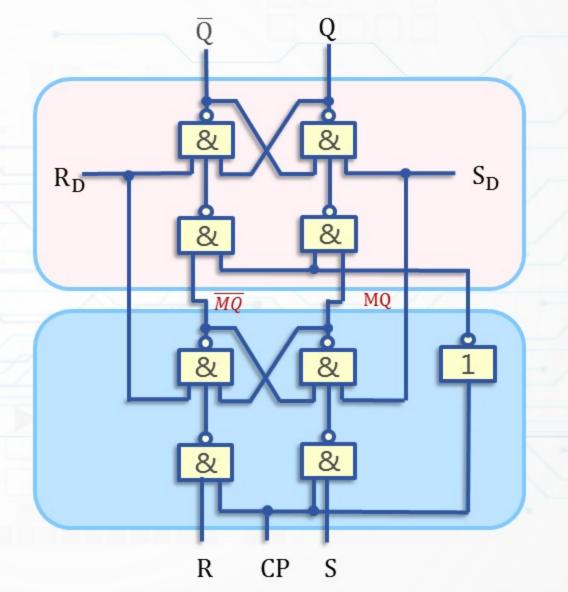
钟控R-S触发器功能一致



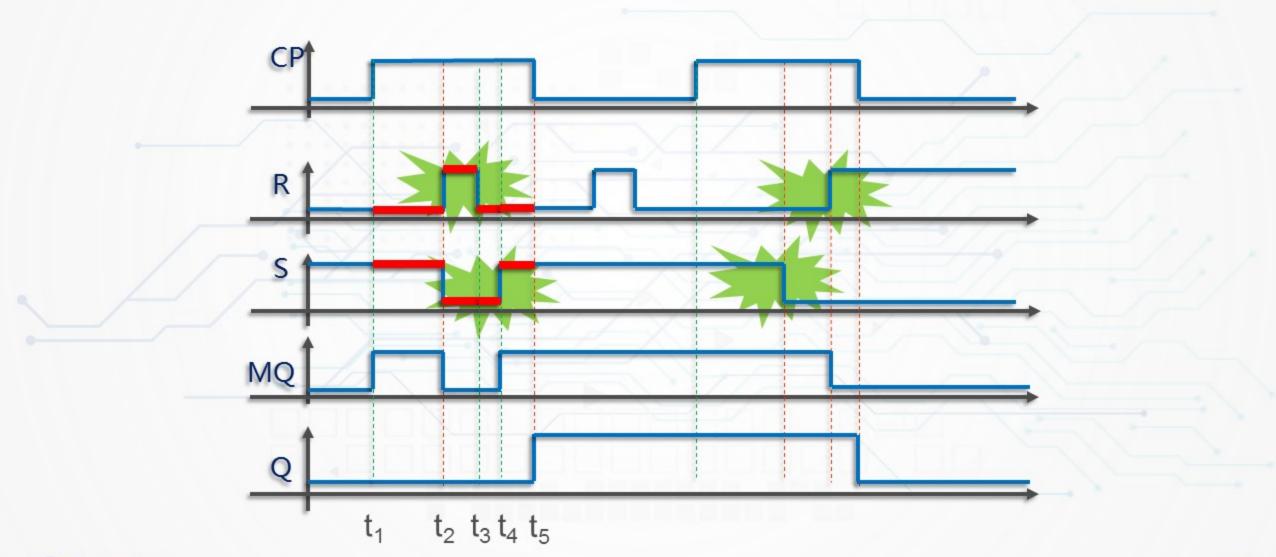


功能



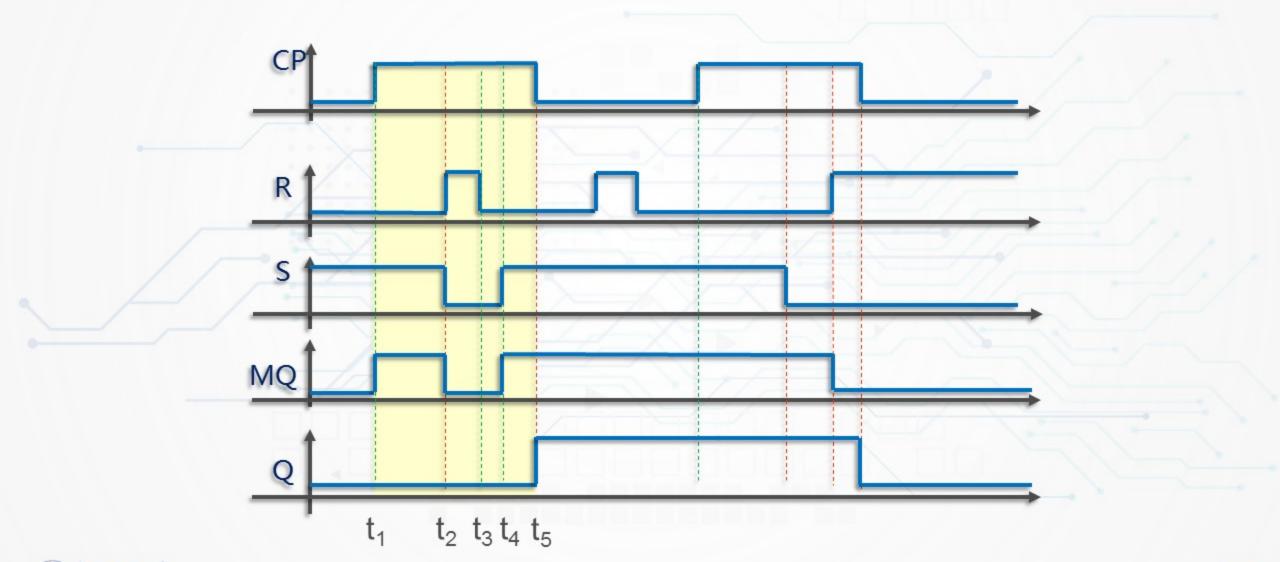


■主从R-S触发器典型波形





■主从R-S触发器典型波形





数季电路与逻辑设计

Digital circuit and logic design

● 谢谢,祝学习快乐!

主讲教师赵贻竹

