

- Removing E-transitions

E-closure (q) = set of states reachable

tom q using only

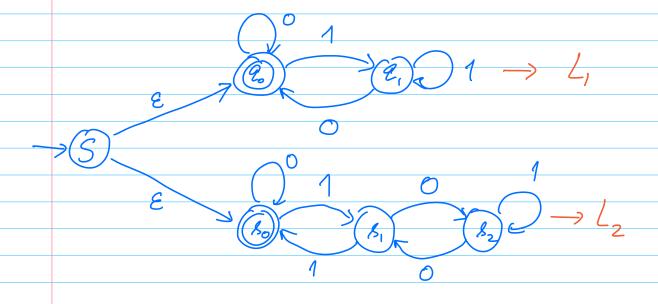
E-transitions

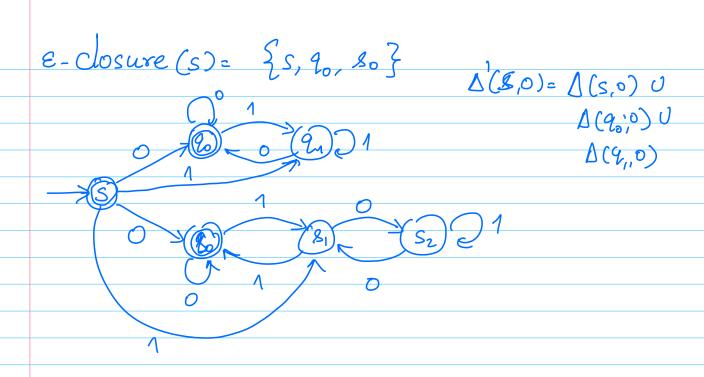
 $N_{i} = (Q, \Sigma \cup \{e\}, \Delta, q_{o}, F)$ 

 $N_2 = (Q, \Sigma, \Delta, q_o, F')$ 

 $\Delta'(Q, a) = \int \Delta(Q, a)$   $Q \in \mathcal{E}\text{-closure}(Q)$ 

 $F = {2 \mid \varepsilon - dosure(2) \cap F \neq \emptyset }$ 

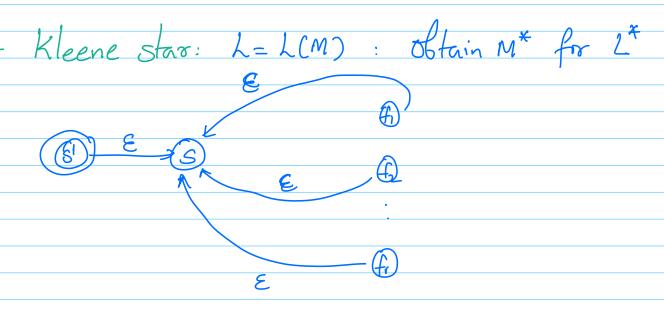




Concatenation: L,= L(M,) & L2= L(M2)

add E-transitions from final states

& M, to-he stort state & M2



$$\delta(Q', \sigma) = \bigcup \Delta(Q, \sigma) = \Delta(A, \sigma)$$

$$Q \in Q'$$