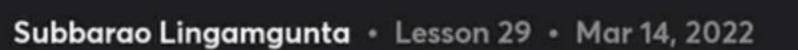
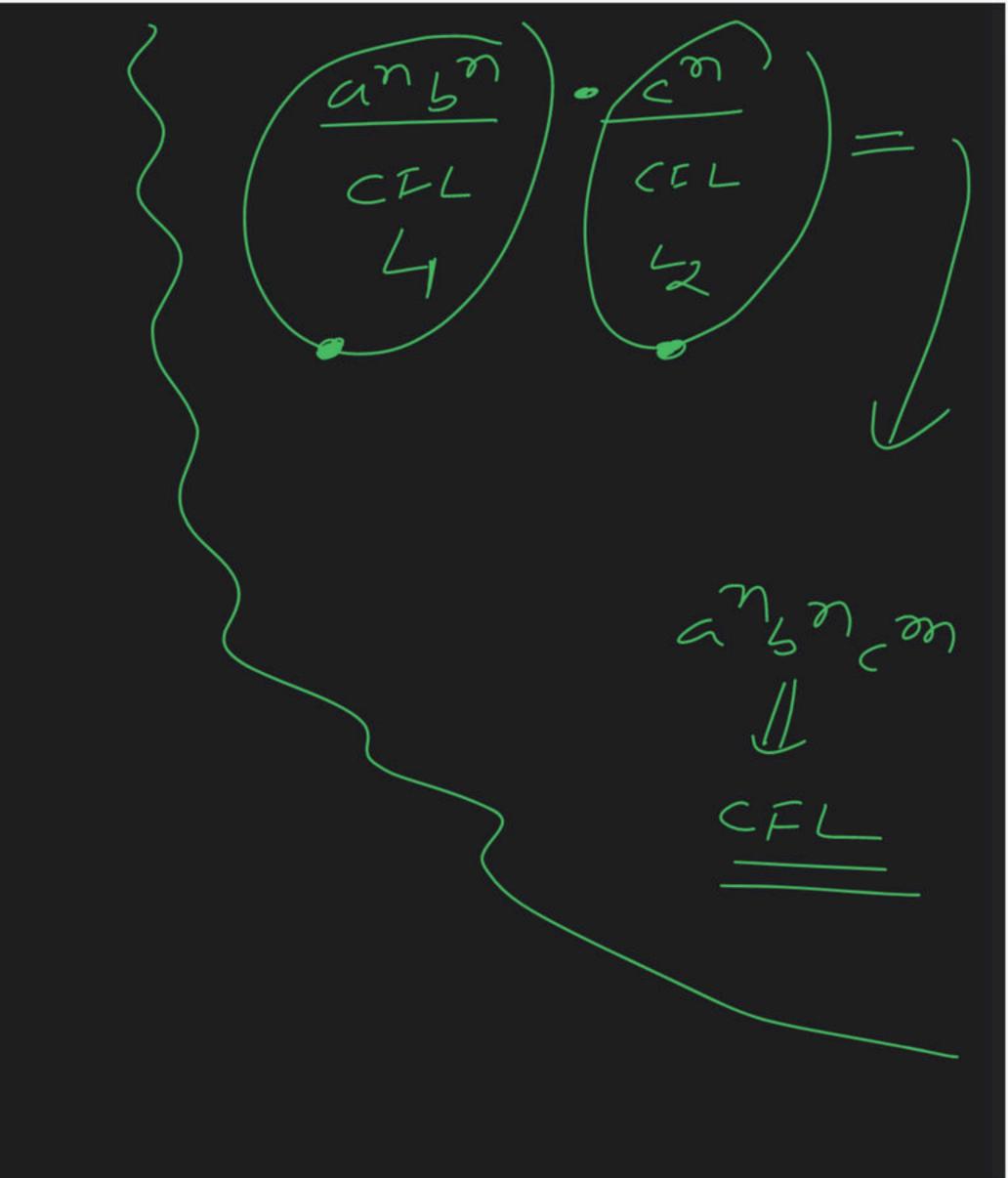


Complete Course on Theory of Computation



Concetention  $Q \cdot a = Q$ (3) E. L, = L, (1)  $a^{2}$ .  $b^{3}$  +  $b^{3}$ ,  $a^{4}$ Li. E = Li (2)  $q \cdot L_1 = q$  $(4) \left[ \underbrace{2^{b} \cdot \alpha - (a+b)^{b} \cdot a}_{a \cdot 2^{b}} + (a+b)^{b} \right]$ 4-4 (5)  $(a+b)^{\dagger} \cdot a^{\dagger} = (a+b)^{\dagger} = a^{\dagger}(a+b)$  $(6) \quad (a+b) \cdot a = (a+b) \cdot a$ F) 9t Lis rep 88 La allo regun Item Lista is down regun

 $L_1 = \log N = a^{\circ} | n \ge 1 = a^{\dagger}$ 6 - repr = 6 ) r 21 = 6+ 2nbn/n21 · q=q(9.1)



Operator Revensal bauaaa

O reverse edfe direction 2) Interchage [Initial 88 Final 3) DFA Revells DFA NFA E-NFA (4) Aster reverse it as single initial with the help & E- Handihia. Note: 96 Lis regular Iten LR also regulas

(2) 
$$L=\xi^{\circ}$$
 Item  $L^{R}=\xi^{\circ}$  (3)  $L=\alpha^{\circ} \Rightarrow L^{R}=\alpha^{\circ}$ 

(5)  $A(a+b)^{\circ} \stackrel{R}{=} (a+b)^{\circ} a$  (6)  $a^{\circ}b^{\circ} \stackrel{R}{=} b^{\circ}a^{\circ}$ 

(5)  $A(a+b)^{\circ}ab(a+b)^{\circ}a$  (6)  $a^{\circ}b^{\circ} \stackrel{R}{=} b^{\circ}a^{\circ}$ 

(7)  $(a+b)^{\circ}ab(a+b)^{\circ} \stackrel{R}{=} (a+b)^{\circ}ba(a+b)^{\circ}$ 

Kleen CIBUYE (I) L=a  $\frac{L^{2}}{S} = S_{1} = S_{2}$ It Lis regul then L'allo regul Note:

(2) 
$$L = \emptyset$$
 Iten  $L^{b} = E$ 

(3)  $L = a^{b}b^{a}$  Iten  $L^{b}$ 

(4)  $E + a^{b} = A^{b}$ 

(5)  $(L^{b})^{b} = L^{b}$ 

(6)  $E^{b} = E$ 

(7)  $E = A^{b}b^{a}$ 

(8)  $E^{b} = A^{b}b^{a}$ 

(9)  $E + a^{b} = A^{b}b^{a}$ 

(10)  $E + a^{b} = A^{b}b^{a}$ 

(11)  $E + a^{b}b^{a}$ 

(12)  $E + a^{b}b^{a}$ 

(13)  $E = a^{b}b^{a}$ 

(14)  $E + a^{b}b^{a}$ 

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(16)  $E^{b} = E$ 

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(24)

(b) 9k Lis (regul) Iten 10 may be regularly may nor be rep

Thank you Dedicte Hat