

Example (recap)

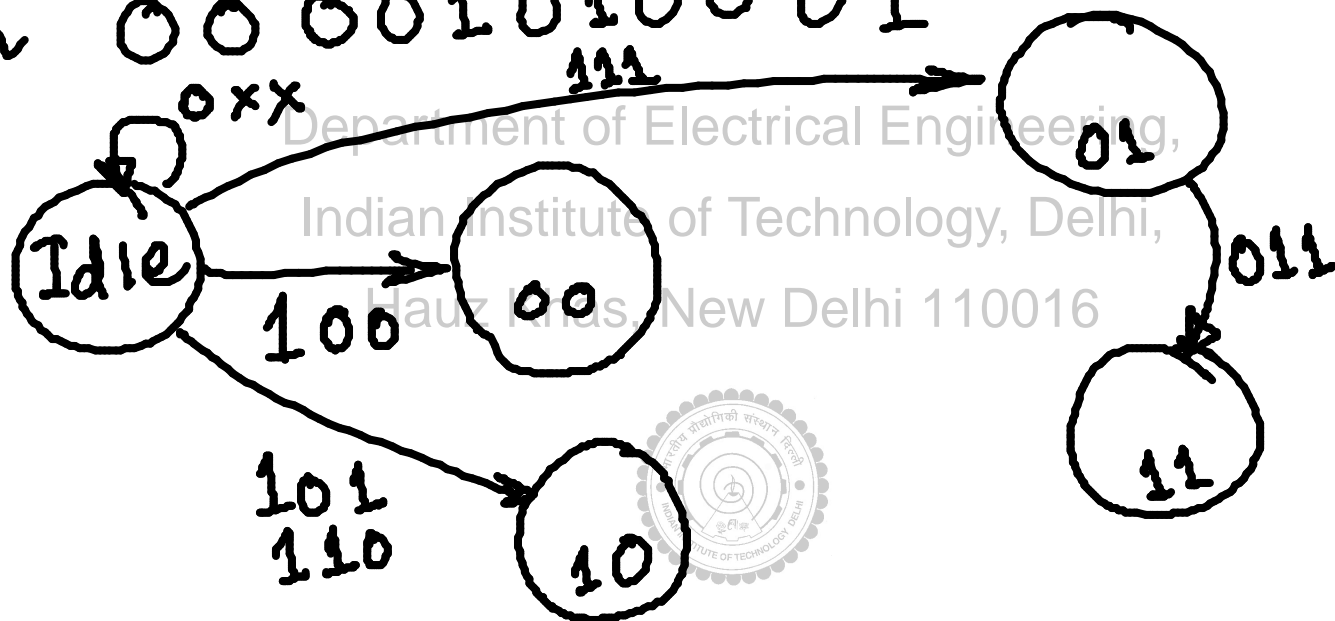
Serial addition

A $\overset{1}{1} \overset{1}{0} \overset{1}{0} \overset{1}{1} \overset{1}{1} \overset{1}{0} \overset{1}{1} \overset{1}{1} \overset{1}{0} \overset{1}{0}$

B 11011110001

Start 10100000010

Sum 00001010001



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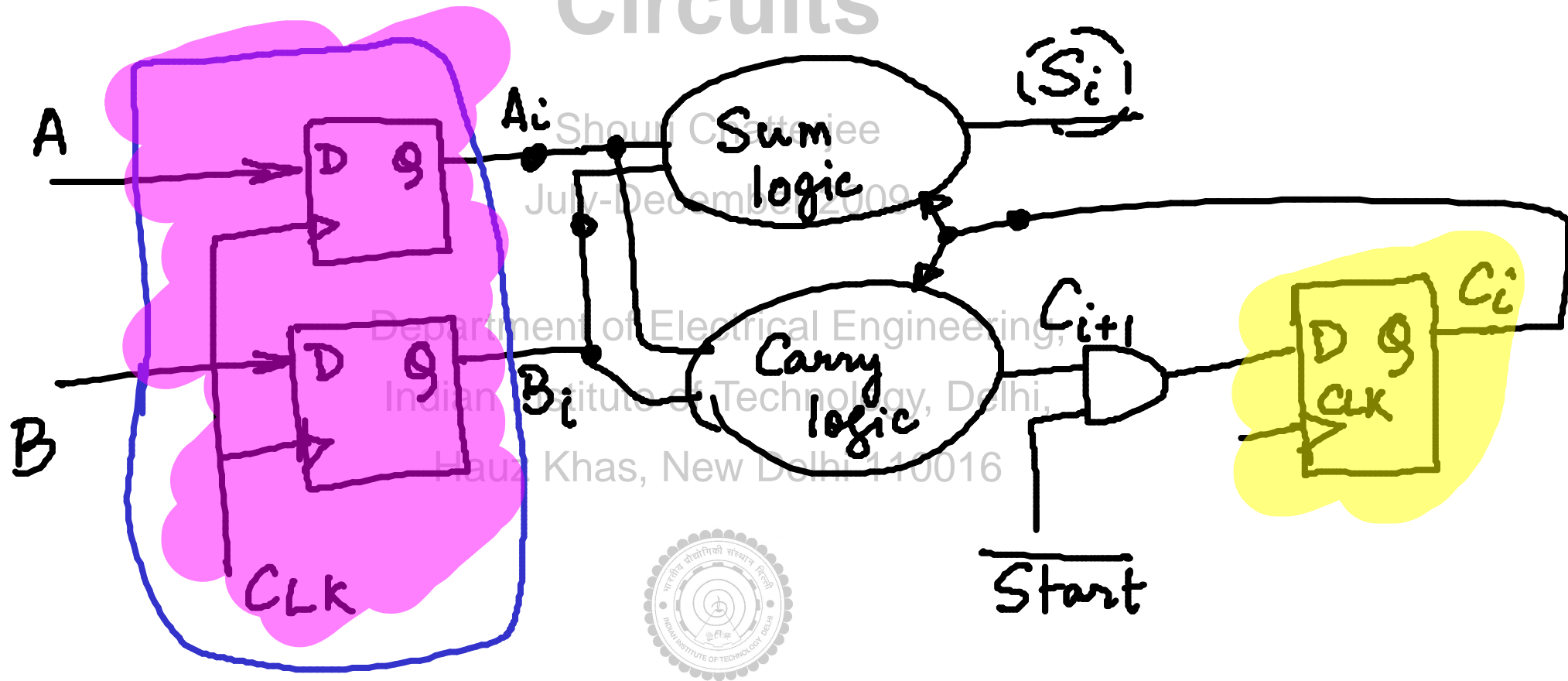
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$$S_i = A_i \oplus B_i \oplus C_i$$

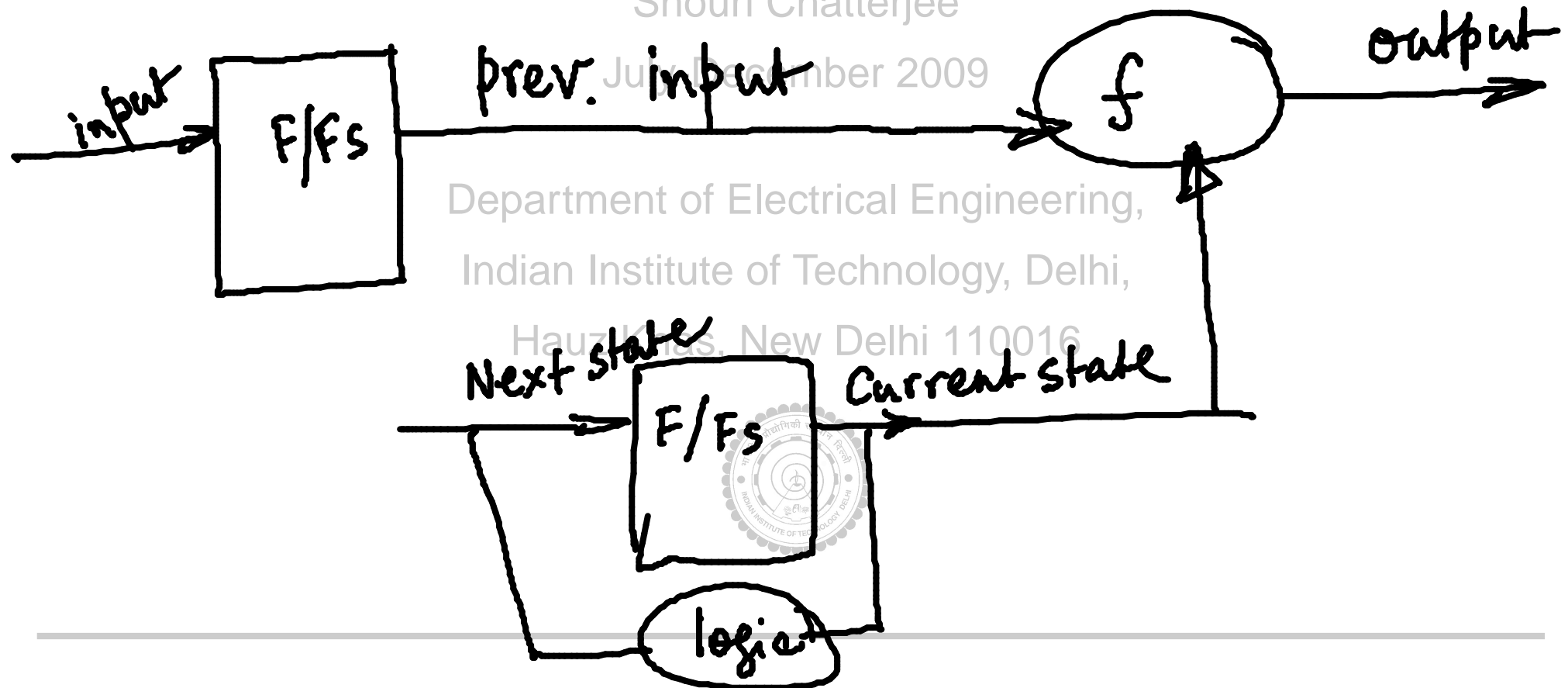
$$C_{i+1} = A_i B_i + B_i C_i + A_i C_i$$

EEL201 Digital Electronic Circuits



Quick and dirty way to convert Mealy machine to a Moore machine:

Store all inputs in f/f's.
Rest is the same.



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