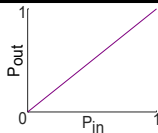


A

Precursors

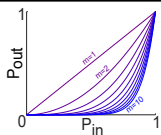


Target



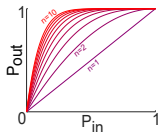
$$P_{out} = P_{in}$$

B



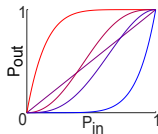
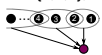
$$P_{out} = (P_{in})^m$$

C



$$P_{out} = 1 - (1 - P_{in})^n = \sum_{i=1}^n (-1)^{i+1} \left[\binom{n}{i} P_{in}^i \right]$$

D

 $S = \{1,2\},$
 $\{2,3,4\}, \dots$


$$P_{out} = \sum_{i=1}^{|S|} (-1)^{i+1} \left[\sum_{1 \leq j_1 < \dots < j_i \leq |S|} \left(P_{in}^{|\cup_{u=1}^i S_{j_u}|} \right) \right]$$