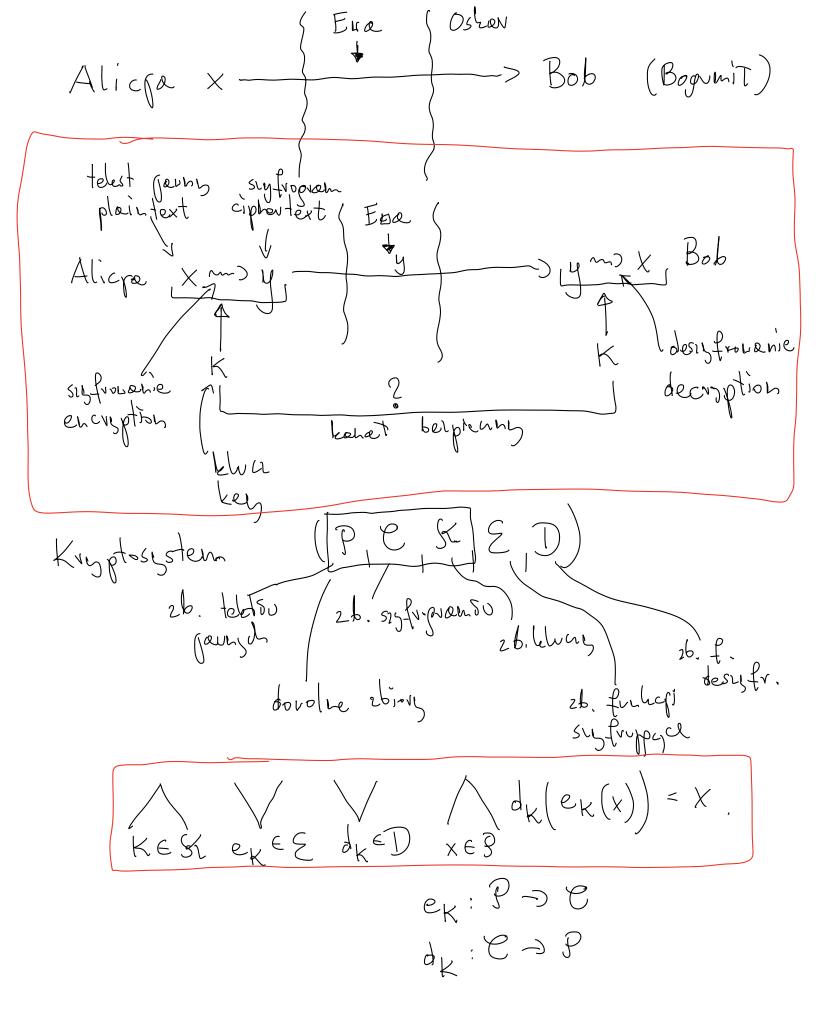
gregosiquica. github. io/teaching/ Kryptografia u teoril i prelityce ), Stinson, M. Paterson Kusptolpla Kusptoordire Kroptoprofice esymetryuha 525/14 LFSR AES V 3DES postleventona Kuyphopuefia



1. Szyfu priestenienous (szyfu Cereva) ABCD .-XYZ DEFG. ABC  $g = \{A, B, ..., 2\} = \{0, 1, ..., 25\} = \mathbb{Z}_{26}$  resity mod 26X = Z16  $e_{K}(x) = (x + K) \mod 2C$ - 2% 26 = 24  $d_{K}(y) = (y - K) \mod 26$ -2% 26 = -2 2. Szyfr & podstaulentous P = C = Z26 K = 26.5v permuters  $Z_{26}$   $\pi = K = (5,7,1,3,0,19,8,...)$  $e_{11}(x) = 11(x)$   $e_{11}(f) = e_{11}(5) = 10(5) = 19 = T$ d (4)  $\#K = 26! \sim 2^{88}$ 2e) Sufr ofining P= C = 226  $K = \{(a,b) \in Z_{26} \times Z_{26} : NUD(a,16) = 1\}$  $e_{k}(x) = e_{(a,b)}(x) = (ax + b)$  mad 26 ISTNIEJE (=) NHD (a,26)=1  $d_{K}(y) = d(e_{1}b)(b) = a^{-1}(y-b) \mod 26$ el. obuvoths do a 4  $\mathbb{Z}_{26}$   $A = 1 \pmod{26}$ 

 $= \times (KK^{-1}) = \times \overline{J} = X$ .