AES XDES encryption stas. Today's lecture: Advanced encrypton std.

Data encrypton std. DES First, most studied cipher in world 1974 by 1BM + NSA Faith fully worked Issues: D Small Key Size (3) 97 - RSA Challenge 2) poorly ophnized (4) 99 - DES Cracker Except 3DES, run 3 times in a row AES NIST competerron Block appear (16 bytes) PL78 AES -/-> C Major blodes: O subst. 2) transposition P XORP=1=> (P XORK) XORK = P (3) bitwise XOR -Recall @repetition: iterate appears: -> [SNb-4->/5nb-E/-> ... - [SNb-E]-> Shannon: Confusion: relation ship between plan I apper text is obscured, Es. subst. diffusion: The influence of one or of each plain text bit is spread over many bits, eg. translation, permutation 10 K--1284

