2/8/23 Security & Security Schurtz schmo 9P2 rsa

German Engun Japanese Purple

> cipher text

plan text & __ s for copher = plantest

Key is importent, not also than

Sci.orypt-upload algorithm let smort people bounk't, Son't keep to cerret

encyption & decryption tos, could be the same

read Gallie Wars book

Cesear Cipre - short letter down

the bit player - move good - information theory

- Sty sally

- X or norden noise at wessage

- undo vandon later to decode

- need to carry key mentioned

Modern al gorithms

-DES (data encryption standard)
- 5 6 bit key

-dd, not great

- AES (Adversal encypton standard)

- 10 billoon gers to oack of brute force

Mbrakable

-n8 bit hay

Can Overtun Comprto bent At S?
- hald require power of USA for a year
- be last slipping still requires every

Simon
- made by NSA
- group of black cephers

non autan # of times

Network preto rool
- conticul for encryption

Kirchoff's principle

-not linear

Public trey cryptography
-2 keys, public & private
- Clifotal signatures = private key
- slow, small data good
- use by #8 - multiplocation
- RSA

I know friends proloc key, but only they can ale crypt of

Diffic Hellown ky exchange
- security exchange key over in serve channel
- creating a shared key by nothing private keys we necessary

n=pxg

RSA

- pretiz radon prime ptog - product en

pulolieis exel - log en

- nordon 3rd prime e

- CaCO cheeks conditions of q q & e privatekey is not of

- denython

RFCs for RST

you have to factor 2

por have to factor of proble key by Composite very hard

noel brooks hotory of the wantel

what makes the difficult is a lot of precise & untonous to the coole breaker. You need all the pieces to clearypt

print #s are very suportant to cryptography
-probalistic test - fast
-AKS feet - Slow but accounte - polynomed
-Evle-Witness - probalatic
-Miller Rabon -probalatic

pour med (Modula- exponentiation)
-repeated sy mes

Moduler Invoice - by Evelid

GMP (GNU multinget pre cister package)
-fort, precise
-arm eying to use
-line by line substitution of normal equations

- count actual expension - every they is an array, all pass by net, choses outs to arrays U How to break modern crystography - dreat

- guess but at RSA encryption vsry meropore on place