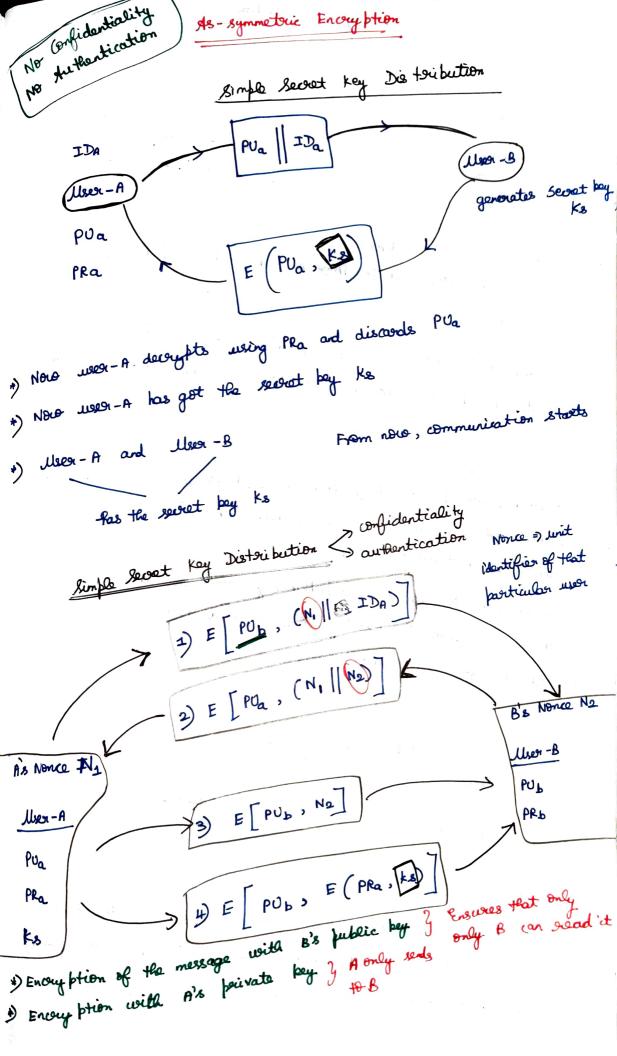
key Distribution Rublic Key Distribution Symmetric Key Distribution Rublicaly Rublic Public As-symmetric Announcement Hailable Symmetric Encouption of public beyo Di-lectory authority Enoughtion Secont key Distoubution with Confidentiality Key Distoubution & Authentication Symmetric Key Distribution Symmetric Energyption *) Process between two pasities that embarges the leay +) Two parties / person-A and person-B an exchange the Bays in the following ways. Physical Heat A can physically Advantage: Hora secured Deliver to B Disadvantage: Horse time Key Distoubution Center [KDC] Generate the boys and send to the users involved. Advantage: Authoritie, but should raly on 3rd poorty. Using Previous beys: alled beys K and governate now tays Using third Posty:



Tublic Feg DS 134 DELL
1) Public Announcement of Rublic beys
$\alpha_{10} = \beta_{10}$
Msex-A PUL PUL
PUD
The Public beys are boundonsted.
*) Any uses ar powterd to be used-4
bey to another user.
bey to another user. 1) Until user-A has got this thing and abouts to the other user, or briefled uses ages of other user boretender is able to seed all enoughted unessages of other user.
posterdor is able the down
as well is used to actually
controlled by
controlled by a tousted entity. (ontrolled by a tousted entity. (ach uses has to register the public bey with a new one 1) I used an suplace the existing bey with a new one 1) I used an suplace the existing bey with a new one
at any time for any season
at any The
Public- bey Disactory Rub
PUL USUS - B
(week-A)
the disectory.
*) uger B fotaled the public bey of when A public bey => His-leading and inmediately upon A updates the public bey => His-leading and inmediately upon an store their public bey.
and inmediately uses - A supdates the in public bey.
*) stry

فعس

3) Rublic Key Authority
Pablic bay shuthority
Designed T1 T2 Reques T2)
/ - 100 (170) Perfect 1 3
E PUB (IDA (NI))
6) E PUa (M) (M2)
$\frac{7}{E} \left[PU_{b}(N_{2}) \right]$ Requesting for
- Part One Key Michael Cold
- A ELTR
Now uses - A with its Puath
to used - B.
3) wen-A D wen-B E PU ; (IDA N1) which goes unique transaction authorized white
NOW USER-B with its Plante II
inon its INA
When were - B wants to send message to uses - A.
KDQLAVA I I I
Abus user with its Paute
(decoupts) [N, N2] [Actey to step-3
(decrypts) (decrypts) [N1 N2] [Aeply to step-3 [N1 N2] [Deply to step-3 [Acknowledgement] [Deply to step-3 [Deply to step-3
Theorem A to use $-B \Rightarrow E \left[PU_b \left(N_2 \right) \right]$ pushese

Authority 4) Public Key Costificate Before the communication starts will exclarge their contificates their (identi) Certificate Authority PUB 3 S CA uses.-A $C_{\mathbf{g}}$ (extificate of week-A > E PR (PUA | IDA ||TI) E PRauta (PUB IDB T2 Contificate of usen-8

Public bey Authority

Rublic bey Contificate Authority

Public bey Contificate Authority