Chapter 1

Gra 5 Passive

(onfidentiality (protect info)

hnauthorized access 1 - Snooping interception of data

- Traffic analysis online traffic

moni foring

Attacks

Active / changes by authorized Integrity lentify through mechanism

intercept mrg Lchange - Medification Spoofing /

· Masquerading impersonate somebody

- Keplaying obtain copy wasg & replay

deny send / receive msq

Info constantly changed, must Availability (accessible to entity

- Denial of service interrupt service

Mechanisms

Data confidentiality
anti-change

Services

Data integrity anti - replay peer entity

Authentication data origin proof of origin proof of delivery

Nonrepudiation

Access control

Encipherment, routing control E, digital signature, data integrity E, ds authentication exchanges ds, di notarization access control mechanism

traffic padding

- Repudiation

Techniques

- Cryptograph y

secret writing

- Steganography

covered writing (image)