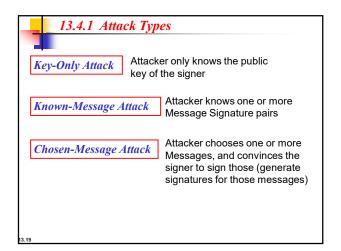
# 13-4 ATTACKS ON DIGITAL SIGNATURE

This section describes some attacks on digital signatures and defines the types of forgery.

### **Topics discussed in this section:**

13.4.1 Attack Types 13.4.2 Forgery Types

3.18



# Existential Forgery Attacker successfully creates a valid message-signature pair, but the message is syntactically/ semantically meaningless Selective Forgery Attacker selects the message contents, and manages to get Alice's signature on it

# 13-5 DIGITAL SIGNATURE SCHEMES

Several digital signature schemes have evolved during the last few decades. Some of them have been implemented.

## **Topics discussed in this section:**

- 13.5.1 RSA Digital Signature Scheme
- 13.5.2 ElGamal Digital Signature Scheme
- 13.5.3 Schnorr Digital Signature Scheme
- 13.5.4 Digital Signature Standard (DSS)
- 13.5.5 Elliptic Curve Digital Signature Scheme

