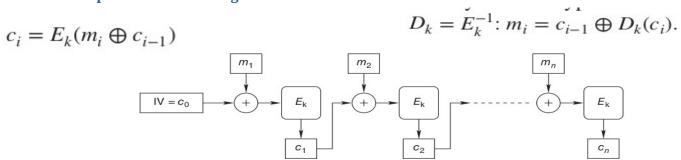
ECB Electronic Code Book NEVER USED

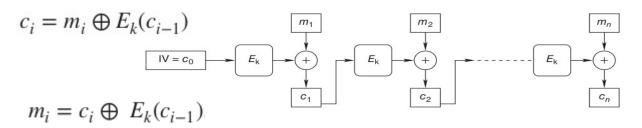
$$c_i = E_k(m_i)$$

$$E_k \qquad E_k \qquad E_k$$

CBC Cipher Block Chaining WIDELY USED

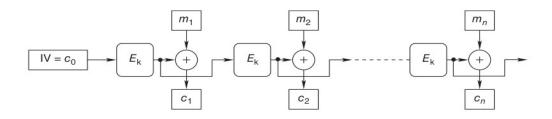


CFB Cipher FeedBack NETWORK USED



OFB Output FeedBack MINIMAL CIRCUITS

$$z_0 = c_0 \; ; \; z_i = E_k(z_{i-1}) \; ; \; c_i = m_i \oplus z_i \qquad z_i = E_k(z_{i-1}) \; ; \; m_i = c_i \oplus z_i$$



CTR Counter Mode Encryption PARALLEL IMPLEMENTATION

