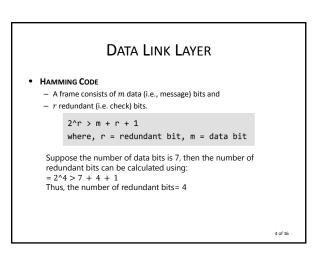
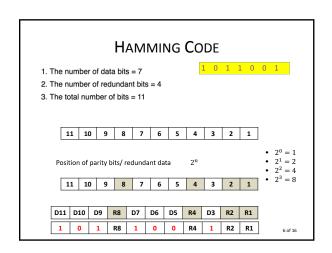
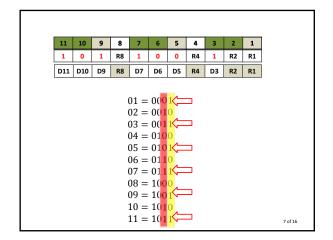


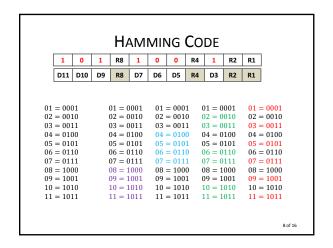
Payload field Trailer FLAG FLAG Header Payload field Trailer FLAG • Error - error-correcting codes and - error-detecting code • Popular error-correcting codes: 1. Hamming codes. 2. Binary convolutional codes. 3. Reed-Solomon codes. 4. Low-Density Parity Check codes.

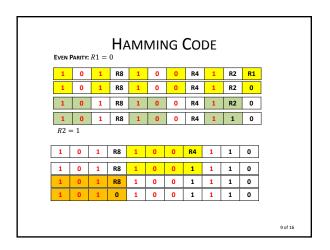


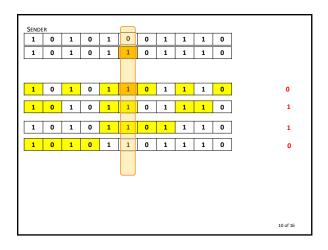
• PARITY BITS — - A parity bit is a bit appended to a data of binary bits to ensure that the total number of 1's in the data are even or odd. Parity bits are used for error detection. - There are two types of parity bits: • Odd parity • Even Parity











ERROR DETECTION 1. Parity. 2. Checksums. 3. Cyclic Redundancy Checks (CRCs). 1. Simple Parity check 2. Two-dimensional Parity check

