















Spring 2009

CSE 30264

Selecting C(x)

- All single-bit errors, as long as the *x*^{*k*} and *x*⁰ terms have non-zero coefficients.
- All double-bit errors, as long as C(x) contains a factor with at least three terms
- Any odd number of errors, as long as *C*(*x*) contains the factor (*x* + 1)
- Any 'burst' error (i.e., sequence of consecutive error bits) for which the length of the burst is less than k bits.
- Most burst errors of larger than k bits can also be detected

CSE 30264

• See Table 2.5 on page 96 for common C(x)

Spring 2009

5





























