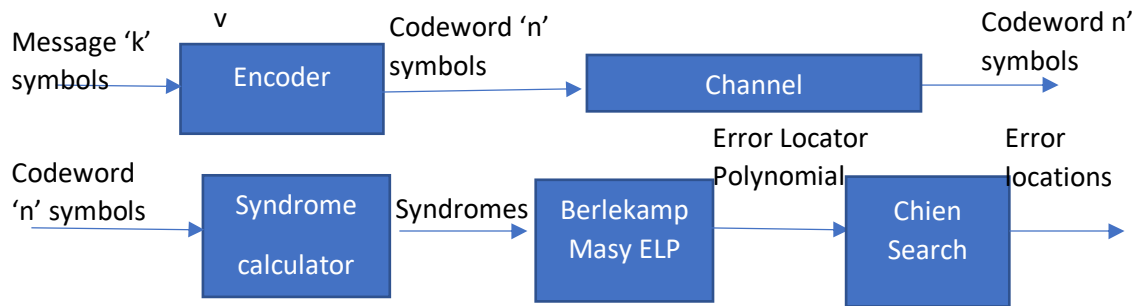


FEC based on BCH Code



BCH Code FEC has:

Symbol width is 1, every symbol is 1 bit.

Galois Field arithmetic is done with primitive polynomial of degree 'm'

No iterative feedback in pipeline.

Encoder:

The BCH Encoder gets 'k' symbols and generates the generator polynomial based on 'm', 't'. It then generates 2^*t ECC parity symbols

Decoder:

- Syndrome Calculator:
 - It calculates 2^*t Syndromes from codeword of 'n' symbols
- Berlekamp Masy Circuit:
 - It calculates 't' error locator polynomials from 2^*t Syndromes
- Chien Search:
 - It searches for locations where errors were injected in the 'n' codeword symbols with 't' error locator polynomials.

Contact: manish@secantecinc.com Phone: (409) 233-3312

<http://www.secantecinc.com>

BCH Page : <http://secantecinc.com/bch-error-correcting-code-2/>