

## CHAPTER-7

### Cyclic Codes

**7.1 Introduction** Cyclic codes are a sub-class of linear block codes, considered to be the most important class. An advantage of the cyclic codes over the most other types of codes is that they possess a well-defined mathematical structure that leads to strong correcting capabilities and to computationally efficient encoding and decoding algorithms. Important sub classes of the cyclic codes are the binary Bose, Chaudhary and Hocquenghem (BCH) codes and the non-binary Reed Solomon (RS) codes.

A block code is said to be cyclic if it has following two basic properties:

1. **Linearity Property:** The sum of any two codewords in the code  $C$  is also a codeword in  $C$ .
2. **Cyclic Property:** Any cyclic shift of a code word in the code  $C$  is also a codeword in  $C$ .

For example, if  $(c_0, c_1, \dots, c_{n-1})$  is a codeword in  $C$ , then  $(c_{n-1}, c_0, c_1, \dots, c_{n-2})$  is also a codeword in  $C$ .

A cyclic code can be easily created by performing a 'right cyclic shift' on an initial code word, developing a new codeword with each shift which continues until the original codeword is obtained. For example

$$C = [000, 011, 101, 110]$$

is an example of a cyclic code.

#### Code Polynomial

A rich set of properties and structure can be extracted from this simple characteristic of cyclic shift. The cyclic code properties are best understood by mapping the code word  $(c_0, c_1, \dots, c_{n-1})$  to a polynomial in the indeterminate  $x$ , called the *code polynomial*. The code polynomial using the elements of the codeword  $(c_0, c_1, \dots, c_{n-1})$  is

$$c(x) = c_0 + c_1x + c_2x^2 + c_3x^3 + \dots + c_{n-1}x^{n-1}$$

Here  $x$  is an indeterminate and for a binary code the coefficients  $c_i$  are 0 and 1.

For example, mapping the codeword in the code  $C$  given above, the corresponding code polynomials, we are:

$$\{0, x + x^2, 1 + x^2, 1 + x\}$$

We observe that multiplication of the polynomial  $c(x)$  by  $x$  may be viewed as a shift to the right. The key problem is how to make such a shift cyclic.

In order to perform the right circular shift in polynomial form, we use multiplication modulo corresponding to the code word  $(c_0, c_1, \dots, c_{n-1})$ .

Let the code polynomial  $c(x)$  be multiplied by  $x^t$ , and then we can show that

$$x^t c(x) = q(x)(x^n + 1) + c^{(t)}(x) \tag{7.1}$$

where  $c^{(t)}(x)$  is the code polynomial of the codeword  $(c_{n-t}, \dots, c_{n-1}, c_0, c_1, \dots, c_{n-t-1})$  obtained by applying  $t$  right cyclic shifts to the codeword  $(c_0, c_1, \dots, c_{n-1})$

# Classification Algorithms For Codes De

**Sabine Zange**

A decorative graphic consisting of a semi-circle with a red-to-white gradient, positioned to the right of the author's name.

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**Classification Algorithms** Mike James, 1932 An introduction to the theory and application of classification analysis Presents techniques for classification analysis that can be applied to a range of disciplines including biology medicine artificial intelligence and others Gives implementations of classification algorithms in BASIC A chapter is devoted to the impact of pattern recognition and artificial intelligence on classification analysis Advanced mathematics is kept to a minimum

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Contemporary Methods in Bioinformatics and Biomedicine and Their Applications Sotir S. Sotirov, Tania Pencheva, Janusz Kacprzyk, Krassimir T. Atanassov, Evdokia Sotirova, Galya Staneva, 2022-03-11 This book gathers selected papers from the First International Symposium on Bioinformatics and Biomedicine Issues related to medicine and health care constitute one of the grand challenges faces by the mankind and this naturally implies a growing interest in these problems among both researchers and scholars politicians and policymakers as well as economist The present values which gather selected papers from the First International Symposium on Bioinformatics and Biomedicine BioInfoMed 2020 is a recent response to this interests In the subsequent sections and chapters it covers a multitude of various topics related to bioinformatics biomedicine bioengineering as well as a broadly perceives healthcare Issues related to decision making in bioinformatics biomedicine and health care

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