

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 $(c_0, c_1, \dots, c_{n-1})$

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Fundamentals of Error-Correcting Codes W. Cary Huffman, Vera Pless, 2010-02-18 Fundamentals of Error Correcting Codes is an in depth introduction to coding theory from both an engineering and mathematical viewpoint As well as covering classical topics there is much coverage of techniques which could only be found in specialist journals and book publications Numerous exercises and examples and an accessible writing style make this a lucid and effective introduction to coding theory for advanced undergraduate and graduate students researchers and engineers whether approaching the subject from a mathematical engineering or computer science background

The Semantic Web - ISWC 2002 Ian Horrocks, James Hendler, 2003-08-01 This book constitutes the refereed proceedings of the First International Semantic Web Conference ISWC 2002 held in Sardinia Italy in June 2002 The 27 revised full research papers 6 position papers and 7 system descriptions presented were carefully reviewed and selected from a total of 133 submissions All current issues in this exciting new field are addressed ranging from theoretical aspects to applications in various fields

Intelligent Computing Theories and Application De-Shuang Huang, Vitoantonio Bevilacqua, Prashan Premaratne, 2016-07-11 This two volume set LNCS 9771 and LNCS 9772 constitutes in conjunction with the volume LNAI 9773 the refereed proceedings of the 12th International Conference on Intelligent Computing ICIC 2016 held in Lanzhou China in August 2016 The 221 full papers and 15 short papers of the three proceedings volumes were carefully reviewed and selected from 639 submissions

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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 mathematical modelling in biomedicine and health care artificial intelligence in biomedicine and health care uncertainty and imprecision notably intuitionistic fuzzy sets with applications in bioinformatics and biomedicine biomedical approaches and applications biomedical imaging and image processing and excitable structures and motor

activity are covered

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