Abstract

In this paper Cyclic Redundancy Check codes are implemented to detect the effectiveness of various types of errors that might occur during the transmission of datastream carrying message signal through the internet. MATLAB simulation software is used to propose a standard polynomial to justify such errors. The justification has been done in such a way that bit position,
number of bits of dataword and codeword of the generator polynomial are considered random. For getting accuracy, simulation at every step of error detection was done many a time in numerous ways. This helped to procure satisfactory result with the proposed polynomial.

References

- Explore products for MATLAB, the language of technical computing, and Simulink, for simulation and Model-Based Design. www.mathworks.com

Index Terms

Computer Science 

Data Communications

Keywords

Generic Polynomial 

Cyclic Redundancy Check

Differential Tangent Equation

Dataword

Codeword

Syndrome