

Implementation of Hamming Code

- To implement Hamming code firstly we calculate Parity Bits
- **Generator Matrix**- It is matrix of $[k \times n]$ use to encode message bits
- For Example
- $p_1 = d_1 + d_3 + d_4$
 $p_2 = d_2 + d_3 + d_4$
 $p_3 = d_5 + d_6 + d_7$

$$G = \left[\begin{array}{cccc|ccc} 1 & 0 & 0 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 0 & 1 & 1 \end{array} \right]$$

(a)

$$H = \left[\begin{array}{ccc} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \\ 0 & 1 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

(b)

Hamming Code Implementation In Java

Tarek Sobh



Hamming Code Implementation In Java:

Algebraic and Stochastic Coding Theory Dave K. Kythe, Prem K. Kythe, 2017-07-28 Using a simple yet rigorous approach Algebraic and Stochastic Coding Theory makes the subject of coding theory easy to understand for readers with a thorough knowledge of digital arithmetic Boolean and modern algebra and probability theory It explains the underlying principles of coding theory and offers a clear detailed description of each code More advanced readers will appreciate its coverage of recent developments in coding theory and stochastic processes After a brief review of coding history and Boolean algebra the book introduces linear codes including Hamming and Golay codes It then examines codes based on the Galois field theory as well as their application in BCH and especially the Reed Solomon codes that have been used for error correction of data transmissions in space missions The major outlook in coding theory seems to be geared toward stochastic processes and this book takes a bold step in this direction As research focuses on error correction and recovery of erasures the book discusses belief propagation and distributions It examines the low density parity check and erasure codes that have opened up new approaches to improve wide area network data transmission It also describes modern codes such as the Luby transform and Raptor codes that are enabling new directions in high speed transmission of very large data to multiple users This robust self contained text fully explains coding problems illustrating them with more than 200 examples Combining theory and computational techniques it will appeal not only to students but also to industry professionals researchers and academics in areas such as coding theory and signal and image processing

Mobile Intelligent Autonomous Systems Jitendra R. Raol, Ajith K. Gopal, 2016-04-19 Going beyond the traditional field of robotics to include other mobile vehicles this reference and recipe book describes important theoretical concepts techniques and applications that can be used to build truly mobile intelligent autonomous systems MIAS With the infusion of neural networks fuzzy logic and genetic algorithm paradigms for MIAS it blends modeling sensors control estimation optimization signal processing and heuristic methods in MIAS and robotics and includes examples and applications throughout Offering a comprehensive view of important topics it helps readers understand the subject from a system theoretic and practical point of view

Advances in Computer and Information Sciences and Engineering Tarek Sobh, 2008-08-15 Advances in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Advances in Computer and Information Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems Computing Sciences and Software Engineering SCSS 2007 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2007

Knowledge-Driven Computing Carlos Cotta, Simeon Reich, Antoni Ligeza, 2008-07-19 The main aim of this volume has been to gather together a selection of recent papers providing new ideas and solutions for a wide spectrum of Knowledge

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