

# Error Control Coding

Second Edition



Shu Lin  
Daniel J. Costello, Jr.



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**Shu Lin**



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*Introduction to Error Control Codes* Salvatore Gravano,2001 This textbook provides a firm foundation for those studying the field of error control codes giving step by step instruction on this complex topic beginning with single parity code checks and repetition codes Through these basic error control mechanisms the fundamental principles of error detection and correction minimum distance and error control limits are considered With the use of detailed examples it guides students from basic error control codes through linear codes cyclic codes linear feedback shift registers vector fields Galois fields BCH codes and convolutional codes There are many detailed examples throughout the book to illustrate the principles and complex mathematical proofs are omitted where possible to keep the text concise and easy to follow     *Error Control Systems for Digital Communication and Storage* Stephen B. Wicker,1995 For introductory graduate courses in coding for telecommunications engineering digital communications This introductory text on error control coding focuses on key implementation issues and performance analysis with applications valuable to both mathematicians and engineers

Unidirectional error correcting, detecting codes Der J. Lin,1988 An extensive theory of symmetric error control coding has been developed in the last few decades The recently developed VLSI circuits ROM and RAM memories have given an impetus to the extension of error control coding to include asymmetric and unidirectional types of error control The maximal numbers of unidirectional errors which can be detected by systematic codes using  $r$  checkbits are investigated They are found for codes with  $k$  the number of information bits being equal to  $2^r$  and  $2^{r-1}$  The importance of their characteristic in unidirectional error detection is discussed A new method of constructing a systematic  $t$  error correcting all unidirectional error detecting  $t$  EC AUED code which uses fewer checkbits than any of the previous methods is developed It is constructed by appending  $t+1$  check symbols to a systematic  $t$  error correcting and  $t$  error detecting code Its decoding algorithm is developed A bound on the number of checkbits for a systematic  $t$  EC AUED code is also discussed Bose Rao codes which are the best known single error correcting all unidirectional error detecting SEC AUED codes are completely analyzed The maximal Bose Rao codes for a fixed weight and for all weights are found Of course the base group and the group element which make the Bose Rao code maximal are found too The bounds on the size of SEC AUED codes are discussed Nonsystematic single error correcting  $d$  unidirectional error detecting codes are constructed Three methods for

constructing the systematic t error correcting d unidirectional error detecting t EC d UED codes are developed From these simple and efficient t EC t 2 UED codes are derived The decoding algorithm for one of these methods which can be applied to the other two methods with slight modification is described A lower bound on the number of checkbits for a systematic t EC d UED code is derived Finally future research efforts are proposed      **Linear Network Error Correction Coding** Xuan

Guang,Zhen Zhang,2014-04-30      *The Undetected Error Probability for Shortened Hamming Codes* Daniel J. Costello,1984

**Combined Source and Error-control Coding** V. Buttigieg,Electrical Engineering and Electronics,1992

Error-Control Coding for Computer Systems Prentice Hall PTR,1991-01-01

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### **Table of Contents Error Control Coding Shu Lin Solution Manual Free Download**

1. Understanding the eBook Error Control Coding Shu Lin Solution Manual Free Download
  - The Rise of Digital Reading Error Control Coding Shu Lin Solution Manual Free Download
  - Advantages of eBooks Over Traditional Books
2. Identifying Error Control Coding Shu Lin Solution Manual Free Download
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Error Control Coding Shu Lin Solution Manual Free Download
  - User-Friendly Interface
4. Exploring eBook Recommendations from Error Control Coding Shu Lin Solution Manual Free Download
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  - Fact-Checking eBook Content of Error Control Coding Shu Lin Solution Manual Free Download
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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