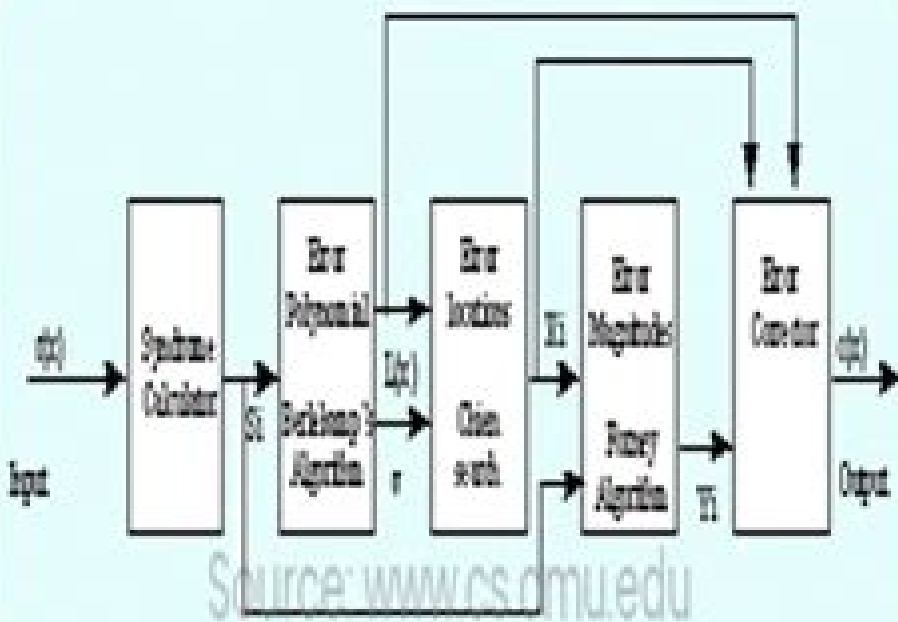


Reed-Solomon Decoder

- The Reed-Solomon (RS) decoder, invented by Reed and Solomon in 1960, is pivotal for error correction in digital communication
- RS codes are non-binary error-correcting codes known for correcting both random and burst errors
- The RS decoder operates in two phases: error detection using syndromes and error correction with algorithms like the Berlekamp-Massey
- These decoders are ubiquitous, being used in data storage, telecommunications, wireless communication, digital broadcasting, and QR codes due to their robust error-handling capacity



Reed Solomon Code

Pat Owsley



Reed Solomon Code:

Reed-Solomon Codes and Their Applications Stephen B. Wicker, Vijay K. Bhargava, 1999-10-12 Electrical Engineering Communications Information Theory The Berlekamp article alone will make this book worth having David Forney Vice President Motorola Codex Reed Solomon Codes and Their Applications Edited by Stephen B Wicker Georgia Institute of Technology and Vijay K Bhargava University of Victoria On the Voyager spacecraft they were responsible for sending clear pictures of the planets back to earth They have also played a key role in the digital audio revolution They are Reed Solomon error codes the extremely powerful codes that provide critical error control for many different types of digital communications systems This outstanding collection of thirteen original articles written by leading researchers in the field provides a uniquely comprehensive overview of the history and practical applications some never before published of these important codes Key features include Thirteen original articles from leading researchers in the field with a historical overview by Reed and Solomon An explanation of how Reed Solomon codes were used in the Voyager spacecraft and how they are currently used in the compact disc player Specific applications for digital audio data transfer over mobile radio satellite communications spread spectrum systems and more New techniques for improving the performance of your own communications systems This book will be of interest to design and research engineers in the telecommunications field particularly those in the aerospace satellite and mobile radio industries It is also well suited for use as an advanced level textbook on the subject of error control coding Books of Related Interest from IEEE Press Claude Elwood Shannon Collected Papers Edited by N J A Sloane and A D Wyner AT T Bell Labs The first published collection of papers by Claude E Shannon including his seminal article The Mathematical Theory of Communication 1993 Hardcover 968 pp IEEE Order Number PC0331 9 ISBN 0 7803 0434 9 Multiple Access Communications Foundations for Emerging Technologies Edited by Norman Abramson University of Hawaii at Manoa The first book to explain the connection between spread spectrum and ALOHA channels providing a collection of key developments in the theory and practice of multiple user communications channels 1993 Hardcover 528pp IEEE Order Number PC0287 3 ISBN 0 87942 292 0 *Tutorial on Reed-Solomon Error Correction Coding* William A. Geisel, 1990

Reed-Solomon Codes and Their Applications Stephen B. Wicker, Vijay K. Bhargava, 1999-10-12 Electrical Engineering Communications Information Theory The Berlekamp article alone will make this book worth having David Forney Vice President Motorola Codex Reed Solomon Codes and Their Applications Edited by Stephen B Wicker Georgia Institute of Technology and Vijay K Bhargava University of Victoria On the Voyager spacecraft they were responsible for sending clear pictures of the planets back to earth They have also played a key role in the digital audio revolution They are Reed Solomon error codes the extremely powerful codes that provide critical error control for many different types of digital communications systems This outstanding collection of thirteen original articles written by leading researchers in the field provides a uniquely comprehensive overview of the history and practical applications some

never before published of these important codes Key features include Thirteen original articles from leading researchers in the field with a historical overview by Reed and Solomon An explanation of how Reed Solomon codes were used in the Voyager spacecraft and how they are currently used in the compact disc player Specific applications for digital audio data transfer over mobile radio satellite communications spread spectrum systems and more New techniques for improving the performance of your own communications systems This book will be of interest to design and research engineers in the telecommunications field particularly those in the aerospace satellite and mobile radio industries It is also well suited for use as an advanced level textbook on the subject of error control coding Books of Related Interest from IEEE Press Claude Elwood Shannon Collected Papers Edited by N J A Sloane and A D Wyner AT T Bell Labs The first published collection of papers by Claude E Shannon including his seminal article The Mathematical Theory of Communication 1993 Hardcover 968 pp IEEE Order Number PC0331 9 ISBN 0 7803 0434 9 Multiple Access Communications Foundations for Emerging Technologies Edited by Norman Abramson University of Hawaii at Manoa The first book to explain the connection between spread spectrum and ALOHA channels providing a collection of key developments in the theory and practice of multiple user communications channels 1993 Hardcover 528pp IEEE Order Number PC0287 3 ISBN 0 87942 292 0 Decoding of Reed Solomon Codes Beyond the Error-correction-bound International Business Machines Corporation. Research Division, Madhu Sudan, 1996

Reed-solomon Codes and the Deep Hole Problem Matt Ket, 2015 In many types of modern communication a message is transmitted over a noisy medium When this is done there is a chance that the message will be corrupted An error correcting code adds redundant information to the message which allows the receiver to detect and correct errors accrued during the transmission We will study the famous Reed Solomon code found in QR codes compact discs deep space probes and investigate the limits of its error correcting capacity It can be shown that understanding this is related to understanding the deep hole problem which is a question of determining when a received message has in a sense incurred the worst possible corruption We partially resolve this in its traditional context when the code is based on the finite field F_q or F_q as well as new contexts when it is based on a subgroup of F_q or the image of a Dickson polynomial This is a new and important problem that could give insight on the true error correcting potential of the Reed Solomon code

A Decoding Procedure for the Reed-Solomon Codes Raymond S. Lim, 1978 A decoding procedure is described for the $n \times k$ error correcting Reed Solomon RS code and an implementation of the 31 15 RS code for the I4 TENEX central system This code can be used for error correction in large archival memory systems The principal features of the decoder are a Galois field arithmetic unit implemented by microprogramming a microprocessor and syndrome calculation by using the $g(x)$ encoding shift register Complete decoding of the 31 15 code is expected to take less than 500 microsecs The syndrome calculation is performed by hardware using the encoding shift register and a modified Chien search The error location polynomial is computed by using Lin's table which is an interpretation of Berlekamp's iterative algorithm The error location

numbers are calculated by using the Chien search Finally the error values are computed by using Forney s method

Reed-Solomon Codes Meri Trema Hughes,1995 A Course in Error-correcting Codes Jørn Justesen,Tom Høholdt,2004

This book is written as a text for a course aimed at advanced undergraduates Chapters cover the codes and decoding methods that are currently of most interest in research development and application They give a relatively brief presentation of the essential results emphasizing the interrelations between different methods and proofs of all important results A sequence of problems at the end of each chapter serves to review the results and give the student an appreciation of the concepts

Burst Error Correction Extensions for Reed Solomon Codes Pat Owsley,1988 **A Decoding Procedure for the Reed-Solomon Codes** National Aeronautics and Space Adm Nasa,2018-09-10 A decoding procedure is described for the n, k, t error correcting Reed Solomon RS code and an implementation of the 31 15 RS code for the I4 TENEX central system This code can be used for error correction in large archival memory systems The principal features of the decoder are a Galois field arithmetic unit implemented by microprogramming a microprocessor and syndrome calculation by using the $g(x)$ encoding shift register Complete decoding of the 31 15 code is expected to take less than 500 microsecs The syndrome calculation is performed by hardware using the encoding shift register and a modified Chien search The error location polynomial is computed by using Lin s table which is an interpretation of Berlekamp s iterative algorithm The error location numbers are calculated by using the Chien search Finally the error values are computed by using Forney s method Lim R S Ames Research Center NASA TP 1286 A 7372 RTOP 366 18 50 00 0

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