Convolutional and Tail-Biting
Quantum Error-Correcting Codes

G. David Forney, Jr.; Markus Grassl! and Saikat Guha!

Abstract

Rate-$(n-2)/n$ unrestricted and CSS-type quantum convolutional codes with up to 4096 states and minimum distances up to 10 are constructed as stabilizer codes from classical self-orthogonal rate-$1/n$ F_4-linear and binary linear convolutional codes, respectively. These codes generally have higher rate and less decoding complexity than comparable quantum block codes or previous quantum convolutional codes. Rate-$(n-2)/n$ block stabilizer codes with the same rate and error-correction capability and essentially the same decoding complexity are derived from these convolutional codes via tail-biting.

Index terms: Quantum error-correcting codes, CSS-type codes, quantum convolutional codes, quantum tail-biting codes.

I. Introduction

Quantum error-correcting codes (QECCs) protect quantum states from unwanted perturbations, allowing the implementation of robust quantum computing and communication systems.

The first breakthrough in this field was Shor's demonstration in 1995 via a 9-qubit single-error-correcting code [28] that quantum error-correction was even possible, which was not obvious a *priori*. Shortly thereafter, a more efficient 7-qubit single-error-correcting code was found by Steane [29] and by Calderbank and Shor [5]. This code was merely the first of a class of quantum codes based on classical binary error-correcting codes, which we call *CSS-type* codes. Later in 1996, an even more efficient 5-qubit single-error-correcting code was found by Bennett *et al.* [2] and by Laflamme *et al.* [22].

Soon thereafter, a general theory of *stabilizer codes* was developed [6, 14, 24, 27], which includes the above codes as particular cases, and indeed essentially all QECCs developed to date. The stabilizer formalism, which we review below, has the virtue of reducing the QECC problem to pure mathematics, and thus allowing non-physicists to contribute to the field. In particular, it shows how to convert certain classical F_4-linear and binary error-correcting codes to QECCs [7].

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Biting the Error Gail Scott,Robert Glck,Camille Roy,2000-11-19 What is the best way to tell a story In this anthology the first ever collection of essays by innovative cutting edge writers on the theme of narration forty of the continent s top experimental writers describe their engagement with language storytelling and the world The anthology includes renowned writers like Kathy Acker Dennis Cooper Nicole Brossard Daphne Marlatt Lydia Davis and Kevin Killian writers who have spent years pondering the meaning of storytelling and how storytelling functions in our culture as well as presenting a new generation of brilliant thinkers and writers like Christian B k Corey Frost Derek McCormack and Lisa Robertson Contemporizing the friendly anecdotal style of Montaigne and written by daring writers of different ages of different origins from many different regions of the continent from Mexico to Montreal these essays run the gamut of mirth prose poetry tall tales and playful explorations of reader writer dynamics They discuss aesthetics founded on new explorations in the field of narrative the mystery that is the body questions of how representation may be torqued to deal with gender and sexuality the experience of marginalized people the negotiation between different orders of time the performance of outlaw subject matter Brave energetic and fresh Biting the Error tells a whole new story about narrative Biting the Error is edited by Mary Burger Robert Gl ck Camille Roy and Gail Scott the co founders of the Narrativity Website Magazine based at the Poetry Center San Francisco State University **On Low-density Parity-check Convolutional Codes** Marcos Bruno Saldanha Tavares,2010 , *Culinary Shakespeare* David B. Goldstein,Amy L. Tigner,2016-05-30 Eating and drinking vital to all human beings were of central importance to Shakespeare and his contemporaries Culinary Shakespeare the first collection devoted solely to the study of food and drink in Shakespeare s plays reframes questions about cuisine eating and meals in early modern drama As a result Shakespearean scenes that have long been identified as important and influential by scholars can now be considered in terms of another revealing cultural marker that of culinary dynamics Renaissance scholars as David Goldstein and Amy Tigner point out have only begun to grapple with the importance of cuisine in literature An earlier generation of criticism concerned itself principally with cataloguing the foodstuffs in the plays Recent analyses have operated largely within debates about humoralism and dietary literature consumption and interiority working to historicize food in relation to the early modern body The essays in Culinary Shakespeare build upon that prior focus on individual bodily experience but also transcend it emphasizing the aesthetic communal and philosophical aspects of food while also presenting valuable theoretical background As various essays demonstrate many of the central issues in Shakespeare studies can be elucidated by turning our attention to the study of food and drink The societal and religious associations of drink for example or the economic implications of ingredients gathered from other lands have meaningful implications for our understanding of both early modern and contemporary periods including aspects of community politics local and global food production biopower and the state addiction performativity posthumanism and the relationship between art and food Culinary Shakespeare seeks

to open new interpretive possibilities and will be of interest to scholars and students of Shakespeare and the early modern period as well as to those in food studies food history ecology gender and domesticity and critical theory **Much ado about nothing. All's well that ends well. Henry V** William Shakespeare,1881 *IEEE International Symposium on Information Theory* ,2000 Early Modern Spectatorship Ronald Huebert,David McNeil,2019-06-30 What did it mean to be a spectator during the lifetime of Shakespeare or of Aphra Behn In Early Modern Spectatorship contributors use the idea of spectatorship to reinterpret canonical early modern texts and bring visibility to relatively unknown works While many early modern spectacles were designed to influence those who watched the very presence of spectators and their behaviour could alter the conduct and the meaning of the event itself In the case of public executions for example audiences could both observe and be observed by the executioner and the condemned Drawing on work in the digital humanities and theories of cultural spectacle these essays discuss subjects as various as the death of Desdemona in Othello John Donne s religious orientation Ned Ward s descriptions of London and Louis Laguerre s murals painted for the residences of English aristocrats A lucid exploration of subtle questions Early Modern Spectatorship identifies imagines and describes the spectator s experience in early modern culture **The plays (poems) of Shakespeare, ed. by H. Staunton, the illustr. by J. Gilbert engr. by the brothers Dalziel** William Shakespeare,1858 Official Gazette of the United States Patent and Trademark Office ,1998 *Exercises in Oral Radiology and Interpretation - E-Book* Robert P. Langlais,Craig Miller,2016-07-19 By providing the most radiography practice and placing it within a unique Q A format with detailed answers and rationales to ensure comprehension Exercises in Oral Radiology and Interpretation 5th Edition is specifically designed to complement radiography instruction throughout the continuum of dental professions For more than 35 years this go to supplement has bridged the gap between the classroom and the clinic providing hundreds of opportunities to practice and master image interpretation It serves as a valuable adjunct to the core content presentation with more than 600 images with case scenarios plus examples questions and tips to fill in the gap in textbook coverage and prepare you for clinical experiences and classroom and board exams UNIQUE Hybrid atlas question and answer format focuses your energies on applying core text content within hundreds of practice opportunities both knowledge based and critical thinking to better prepare you for clinical experiences Hundreds of clinical photos and radiographs allow you to see not only how images should be obtained but also how to identify normal and abnormal findings on radiographs 525 test questions organized by radiation science and assessment interpretation offer board review practice A back of book answer key contains detailed answers and rationales for each Q A set within each chapter in addition to simple answers for the board review questions Comprehensive coverage of all dental imaging techniques and errors as well as normal and abnormal findings makes this supplement a must have throughout your radiography courses as a board study tool and as a clinical reference Emphasis on application through case based items that encourage you to read comprehend and assimilate content to formulate a well

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Table of Contents Biting The Error Biting The Error

1. Understanding the eBook Biting The Error Biting The Error
    - The Rise of Digital Reading Biting The Error Biting The Error
    - Advantages of eBooks Over Traditional Books
2. Identifying Biting The Error Biting The Error
    - 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 Biting The Error Biting The Error
    - User-Friendly Interface
4. Exploring eBook Recommendations from Biting The Error Biting The Error
    - Personalized Recommendations
    - Biting The Error Biting The Error User Reviews and Ratings
    - Biting The Error Biting The Error and Bestseller Lists
5. Accessing Biting The Error Biting The Error Free and Paid eBooks
    - Biting The Error Biting The Error Public Domain eBooks
    - Biting The Error Biting The Error eBook Subscription Services
    - Biting The Error Biting The Error Budget-Friendly Options
6. Navigating Biting The Error Biting The Error eBook Formats
    - ePub, PDF, MOBI, and More
    - Biting The Error Biting The Error Compatibility with Devices
    - Biting The Error Biting The Error Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Biting The Error Biting The Error
    - Highlighting and Note-Taking Biting The Error Biting The Error
    - Interactive Elements Biting The Error Biting The Error
8. Staying Engaged with Biting The Error Biting The Error

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