

# ASYMPTOTIC COMBINATORIAL CODING THEORY

by  
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# Asymptotic Combinatorial Coding Theory

**Léo Pomar**



## **Asymptotic Combinatorial Coding Theory:**

Asymptotic Combinatorial Coding Theory Volodia Blinovsky, 2012-12-06 Asymptotic Combinatorial Coding Theory is devoted to the investigation of the combinatorial properties of transmission systems using discrete signals. The book presents results of interest to specialists in combinatorics seeking to apply combinatorial methods to problems of combinatorial coding theory. Asymptotic Combinatorial Coding Theory serves as an excellent reference for researchers in discrete mathematics, combinatorics, and combinatorial coding theory and may be used as a text for advanced courses on the subject.

*Lectures on Advances in Combinatorics* Rudolf Ahlswede, Vladimir Blinovsky, 2008-05-17 The lectures concentrate on highlights in Combinatorial Chapters II and III and Number Theoretical Chapter IV. Extremal Theory in particular on the solution of famous problems which were open for many decades. However, the organization of the lectures in six chapters does neither follow the historic developments nor the connections between ideas in several cases. With the specified auxiliary results in Chapter I on Probability Theory, Graph Theory, etc., all chapters can be read and taught independently of one another. In addition to the 16 lectures organized in 6 chapters of the main part of the book, there is supplementary material for most of them in the Appendix. In particular, there are applications and further exercises, research problems, conjectures, and even research programs. The following books and reports B97, ACDKPSWZ00, A01, and ABCABDM06, mostly of the authors, are frequently cited in this book, especially in the Appendix, and we therefore mark them by short labels as B, N, E, and G. We emphasize that there are also Exercises in B, a Problem Section with contributions by several authors on pages 106-3, 110-5 of G, which are often of a combinatorial nature, and Problems and Conjectures on pages 172-173 of E.

**List Decoding of Error-Correcting Codes**  
Venkatesan Guruswami, 2004-11-29 How can one exchange information effectively when the medium of communication introduces errors? This question has been investigated extensively, starting with the seminal works of Shannon (1948) and Hamming (1950) and has led to the rich theory of error-correcting codes. This theory has traditionally gone hand in hand with the algorithmic theory of decoding that tackles the problem of recovering from the errors efficiently. This thesis presents some spectacular new results in the area of decoding algorithms for error-correcting codes. Specifically, it shows how the notion of list decoding can be applied to recover from far more errors for a wide variety of error-correcting codes than achievable before. A brief bit of background: error-correcting codes are combinatorial structures that show how to represent or encode information so that it is resilient to a moderate number of errors. Specifically, an error-correcting code takes a short binary string called the message and shows how to transform it into a longer binary string called the codeword so that if a small number of bits of the codeword are flipped, the resulting string does not look like any other codeword. The maximum number of errors that the code is guaranteed to detect, denoted  $d$ , is a central parameter in its design. A basic property of such a code is that if the number of errors that occur is known to be smaller than  $d/2$ , the message is determined uniquely. This poses a computational problem called the decoding problem: compute the message from a corrupted codeword when the number of errors is less than  $d/2$ .

**Handbook of Coding Theory** Vera Pless, William Cary Huffman, Richard A. Brualdi, 1998-11-16      **Combinatorial Problems in Analysis of Algorithms and Coding Theory** Olgica Milenkovic, 2002      *2002 IEEE International Symposium on Information Theory*, 2002      Combinatorics: Combinatorial group theory Marshall Hall, Jacobus Hendricus van Lint, 1974 *Mathematical Reviews*, 2008      Error-correcting Coding Theory Man Young Rhee, 1989      **2001 IEEE International Symposium on Information Theory**, 2001      **Handbook of Applicable Mathematics, Combinatorics and Geometry** Walter Ledermann, Steven Vajda, 1985 Volume 5      *Cumulative Book Index*, 1998 A world list of books in the English language      **Book Review Index**, 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index      **Exercises in Parallel Combinatorial Computing** Gerardus Antonius Petrus Kindervater, 1991      **Combinatorics** Marshall Hall, 1974 Random Walks with Stationary Increments and Renewal Theory H. C. P. Berbee, 1979      *Locally Convex Algebras in Spectral Theory and Eigenfunction Expansions* H. G. J. Pijls, 1976      **IEEE International Symposium on Information Theory**, 1994      Proceedings of the Southeastern Conference on Combinatorics, Graph Theory, and Computing, 1974      **The British National Bibliography** Arthur James Wells, 1998

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