



## Codes from Difference Sets

*Cunsheng Ding*

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# Codes from Difference Sets

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## Codes from Difference Sets Cunsheng Ding

This is the first monograph on codebooks and linear codes from difference sets and almost difference sets. It aims at providing a survey of constructions of difference sets and almost difference sets as well as an in-depth treatment of codebooks and linear codes from difference sets and almost difference sets. To be self-contained, this monograph covers necessary mathematical foundations and the basics of coding theory. It also contains tables of best BCH codes and best cyclic codes over  $GF(2)$  and  $GF(3)$  up to length 125 and 79, respectively. This repository of tables can be used to benchmark newly constructed cyclic codes.

This monograph is intended to be a reference for postgraduates and researchers who work on combinatorics, or coding theory, or digital communications.

### Contents:

- Mathematical Foundations
- Linear Codes over Finite Fields
- Designs and Their Codes
- Difference Sets
- Almost Difference Sets
- Linear Codes of Difference Sets
- Linear Codes of Almost Difference Sets
- Codebooks from (Almost) Difference Sets

**Readership:** Students and professionals working on combinatorics, or coding theory, or digital communications.

### Key Features:

This is the unique monograph on the topic, and thus has no competing titles. It is the first comprehensive reference on almost difference sets. It is a necessary reference for coding theorists due to the repository of tables of best cyclic codes and best BCH codes

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