

BCH CODES AND THEIR PROPERTIES

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This dissertation studies BCH codes and their properties and discusses about direct solutions in case of some simple classes. Peterson's direct solution is described using Newton's identities.

This dissertation has three chapters. Chapter one describes linear codes and gives the methods of error correction and error detection. The method of coset leader in error correction is given. BCH codes are introduced in chapter two. Primitive BCH code is described and examples of BCH codes are given. Newton's identities are determined. In the final chapter direct solutions to simple cases are illustrated.