

# ALGEBRAIC BINARY CODES AND THEIR PROPERTIES

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In this dissertation the student has studied mainly the algebraic codes in general and in particular the concept of dual or orthogonal codes and cyclic codes. He also described the error correcting methods like pseudo best approximations.

This dissertation has four chapters. Chapter one introduces linear codes and the various types of codes. The dual or orthogonal code and cyclic codes are discussed in chapter two. The concept of pseudo best approximations and its applications in finding the best approximated code word is discussed in chapter three. The final chapter gives the conclusions based on the study.