

# HAMMING CODES

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In this dissertation the student studies about Hamming codes and analyze the properties associated with them. Hamming distance and Hamming weights are recalled. Discussions on channel coding are systematically studied with illustrative examples.

This dissertation has three chapters. First chapter is devoted to the introduction of Hamming codes and they are widely used in Random Access Memory (RAM). Construction of Hamming codes are also described. In chapter two Hamming distance is defined and it shown to be a metric. These concepts are illustrated by examples. Channel coding using Hamming codes are described in chapter three.