

A Seminar on

SEQUENTIAL DECODING by STACK ALGORITHM

1. INTRODUCTION

During the transmission process when the transmitted signal passes through some noisy channel, due to noise interference errors are introduced in the received data. These errors can be detected and corrected using Coding Technique.

Types of Coding Technique:

- 1) Block codes
- 2) Convolutional codes

In **block coding**, the encoder accepts a k -bit message block and generates an n -bit codeword. Thus, code words are produced on a **block-by-block** basis. So, provision must be made in encoder to buffer an entire message block before generating the associated codeword. However, there are applications where the message bits come in serially rather than in large blocks, in which case the use of a buffer may be undesirable. In such situations, the use of **convolution coding** is preferred.

2. CONVOLUTIONAL CODE

Convolutional codes were first introduced by Elias in 1955 as an alternative to block codes. Wozencraft proposed sequential decoding as an efficient decoding scheme for convolutional codes.

The convolutional coding technique is designed to reduce the probability of erroneous transmission over noisy communication channels.

A binary convolutional code is denoted by a three-tuple $(n; k; m)$, which corresponds to an encoder for which n output bits are generated whenever k input bits are received, and for which the current n outputs are linear combinations of the present k input bits and the previous $m \times k$ input bits.

Sequential Decoding

WJ Hussar

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