

CONCATENATED CODED VESTIGIAL SIDEBAND MODULATION FOR HIGH DEFINITION TELEVISION

Abstract

A modulation scheme for HDTV, for example, uses a concatenated code
5 comprised of a Reed-Solomon coder (131) followed by an N-dimensional trellis
coder (136) whose N-dimensional output symbols with $N > 1$, are used to modulate a
one-dimensional vestigial sideband modulator (15). Specifically, each N-
dimensional symbol is a sequence of N one-dimensional signal points--specifically
10 signal points of a one-dimensional VSB constellation.

Fig 1.