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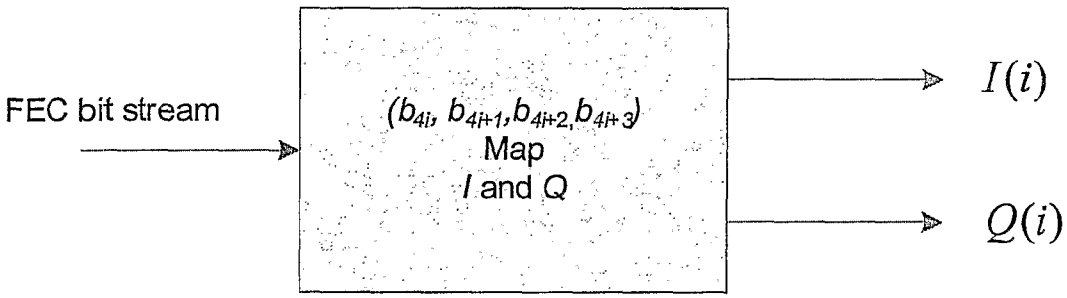
(54) Title: BIT MAPPING SCHEME FOR AN LDPC CODED 16APSK SYSTEM



(57) Abstract: A digital communication system, having a transmitter to transmit a digital signal; and a receiver to receive the digital signal; wherein the digital signal utilizes a 16APSK system, and the signal is bit-mapped using gray mapping, and bits of the digital signal are ordered based on the values of a log likelihood ratio from a communications channel.