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Coding theory is the study of how information can be transmitted efficiently and reliably. The usual practice involves encoding data as a string of code symbols where the structure of the code allows detection and correction of errors. Iterative decoding algorithms are a recently developed class of graph-based algorithms that perform local decoding iteratively. These modern algorithms are extremely fast and are capable of correcting more errors than guaranteed by the classical minimum distance of the code. Nonetheless, since the algorithms are local, they may yield a noncodeword output called a pseudocodeword. In this talk, we discuss some properties and characterizations of the graph cover pseudocodewords. (Received March 01, 2011)