

AbstractMETHOD AND APPARATUS FOR ESTIMATING POWER REQUIRED FOR
TRANSMISSION OF DATA AT A RATE IN A COMMUNICATION SYSTEM

Methods and apparatus for estimating a transmission power required for transmission of data and detecting an outage in a communication system are disclosed. A terminal determines a quality metric of a communication link, over which data are to be transmitted, and modifies the determined quality metric by a quality metric margin. The terminal may declare an outage event when power required for transmission of a reference signal exceeds power required for transmission of the reference signal determined from the modified quality metric. Alternatively, the terminal may estimate transmission power required for transmission of data in accordance with the modified quality metric. The quality metric margin may be a pre-determined or dynamically adjusted.