

Spectral amplitude coding OCDMA using and subtraction technique

An optical decoding technique is proposed for a spectral-amplitude-coding- optical code division multiple access, namely, the AND subtraction technique. The theory is being elaborated and experimental results have been done by comparing a double-weight code against the existing code, Hadamard. We have proved that the AND subtraction technique gives better bit error rate performance than the conventional complementary subtraction technique against the received power level.