Pulse-Interval Modulation Signal Transmission

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Abstract

Pulse-interval modulation (PIM) is derived from asynchronous binary – slope quantised pulse – code modulation (ABSQPCM). In ABSQPCM and PIM, the input information signal is approximated by a series of positive decaying steps of equal amplitude and a simple differentiation of these steps provides a series of on-off pulses of varying periods. Pulse-interval modulation system has been experimentally tested for transmission of sinusoidal, data, FSK and speech signals (on tapes supplied by British Post Office Research Station) and the quality of reproduced signals was very good. Pulse-interval modulation belongs to the family of pulse-time modulation systems which have recently been used for video transmission in optical fibre local networks.