

AUTOMATIC ERROR DETECTION AND CORRECTION EQUIPMENT

Error Correcting Multiplex telegraph systems provide automatic correction of errors which may be introduced when telegraph signals are transmitted over circuits subject to interference, noise, fading or interruption.

The need for automatic error correction on h.f telegraph circuits has increased due to the growth of traffic on these circuits and by the crowded frequency band, which results in more interference. For international telex circuits and for telegraph circuits connected to automatic message relay systems, automatic error correction is practically essential, as manual methods of checking copy and requesting repetitions cannot be employed.

On some circuits, however, the use of ARQ is neither possible nor desirable. In these cases the only possible method of providing protection is to use forward error correcting techniques.

Two basically different types of equipment are featured. They are 'AUTOPLEX' which is a system that provides automatic error detection and correction by repetition (i.e a true ARQ system); and 'AUTOSPEC' which is a cheaper system that provides automatic error detection and correction by the use of a special ten unit code, thus requiring no return path for RQ signals.

