



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

R.74

TELEGRAPHY

TELEGRAPH TRANSMISSION

**CHOICE OF TYPE OF TELEGRAPH
DISTORTION - MEASURING EQUIPMENT**

ITU-T Recommendation R.74

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation R.74 was published in Fascicle VII.1 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Recommendation R.74

CHOICE OF TYPE OF TELEGRAPH DISTORTION-MEASURING EQUIPMENT

*(former CCIT Recommendation B.52, Geneva, 1956;
amended at Geneva, 1964 and 1980)*

The CCITT,

in view of

Recommendation R.90,

considering

(a) that measurements of isochronous distortion made with the text specified in Recommendation R.51 *bis* should normally be applied to code-independent telegraph channels;

(b) that it may in principle be desirable to measure the distortion of telegraph channels in terms of start-stop distortion;

(c) that all important terminals of voice-frequency telegraph systems are equipped with isochronous distortion-measuring equipment and that their replacement by start-stop instruments would be expensive,

unanimously declares the view

(1) that, for the maintenance of code-independent telegraph channels, isochronous distortion measuring equipment should normally be used;

(2) that Administrations may nevertheless, by common consent, use for this purpose start-stop distortion measuring equipment,

considering also

(d) that measurements of the quality of start-stop signals cannot normally be made without start-stop distortion measuring equipments;

(e) that the planning and establishment of telegraph networks are to be judged in terms of conventional degrees of start-stop distortion, and that degrees of start-stop distortion may also prove to be the best basis for calculations of the summation of degrees of distortion and for calculation of conventional start- stop distortion;

(f) that, for the maintenace of telegraph channels incorporating code-dependent systems, start-stop test equipment is essential,

unanimously declares the view

(3) that all international switching and testing centres (ISTCs) should be equipped with start-stop distortion-measuring equipment.