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Summaries

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One Year Results of Sweep Measurements of a Radio Link

M. Liniger, Berne

Sweep measurements over a bandwidth of 40 MHz were carried out on a 111 km hop in the 11 GHz band in Switzerland, covering a period of one year with and without space diversity reception (in-phase combiner). The results are represented as the probability density function of polynomial approximation of the attenuation in decibels and are given for the copolarized and the crosspolarized RF-channel. The description of the wave propagation is then combined with the performance (signature) of several digital radiolink equipments. This gives an estimation of the outage probability of a radiolink.

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Investigations of TV Receiver Quality for the Cable Distribution Network

H. Gysel, Berne

Investigations were conducted on 23 television receivers in order to determine the condition of received picture quality for a large number of channels of the cable distribution network. It was proven that the receivers of the present state of technology do not suffer any perceptible loss of picture quality. However, quite close tolerance levels have to be maintained at the subscriber's socket.

News Items

Telephone

After extensive tests, **glass fibre cables** were taken into operation in **Basel-Rheinfelden-Möhlin and Lausanne-Morges** links. The installations are now functioning faultlessly after removal of the initial problems with laser diode and optical connector by the supplier.

The installations of **29 cable projects** are planned for **1987**. These are: 19 PCM-2, 2 PCM-34, 5 (optical) PCM-34 and 3 (optical) PCM-565.

The first vehicles for the **mobile customer service** shall be employed already in 1984. The trial run within the Thun telecommunications district shows positive results.

In November 1983, **10 additional satellite circuits** over Leuk earth station were opened: Brazil (1), Egypt (2), Kenya (1), Kuwait (4), South Africa (1) and the USA (1).

Agreements were reached between **Italian and Swiss PTTs** to open a 34 Mbit/s radio link for data transmission between Milan and Lugano in 1985 and a glass fibre cable link in 1988. It is also agreed to terminate the trunk cables Como-Chiasso and the C-carrier cable Chiavenna-Saint Moritz.

Teleinformatics

At present, Switzerland is directly connected with **204 countries and their terri-**

tries via telex network, of which 185 (36 in Europe, 149 overseas) or 91 pc are automatic, 19 or 9 pc manual.

The **Memo-Telex**, a public «store and forward» service in the telex network, was opened on 1 November 1983 with the following countries: Federal Republic of Germany, France, United Kingdom, The Netherlands, Austria, all countries in Africa (except Burundi, Guinea, Morocco, Lybia and Somalia), Bangladesh, Burma, India, Pakistan, Thailand, Australia, New Zealand, all countries in South America (except Paraguay and Surinam). Thus, 73 countries are linked with Memo-Telex service.

Radio, Television

The new 250 m high **telecommunication tower Saint Chrischona** near Basel was completed after three and a quarter years of construction and equipment installation.

Between Swiss PTT and Eutelsat a **lease agreement** was concluded for the use of the transponder No. 7 of the **ECS-F1 telecommunications satellite**. This will serve to transmit a Pay-TV programme of the Pay-Sat Co from spring 1984 onwards. The feeder link will be established from an earth station near Zurich.

In 1983, 102 candidates appeared at the **examination for the technical supervision**. They were sent by the **licensed radio and television firms**. 54 of them have passed successfully.