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Summaries

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Perceptibility Study of Telephone Call Signals

P. Appoloni, L. Guldbrandsen, Hombrechtikon, and E. Seemann, Berne

Zellweger Uster Co in cooperation with the PTT carried out a study on the perceptibility of several call signals from telephone sets. So far it was believed that the electronically generated call signal is not satisfactorily perceived when compared with the alarm signal. In order to analyse this problem investigations were made on alarm clocks and on electronically generated call signals. The emphasis of the study was on the perceptibility of several call signals. The main objective was to understand correctly the characteristics of these signals as far as possible.

p. 468...473

Simulator for Multipath Fading in Radio Links

P. Jordi, Berne

Only the multipath fading is considered for laboratory simulation among the many different kinds of fadings which are encountered in the multi-hop radio links. The article describes the characteristics of multipath fading and the selective fading in particular. Obviously the approximate fading spectrum must be known in order to construct the simulator. After a description of the simulator which can be operated both in IF and RF bands the results of simulations are briefly treated.

p. 474...483

Study on Prime Cost and Tariffs for International Telecommunication Services

W. Jost, Berne

On one side the tariffs relate to compensations to the administrations for providing the circuits and on the other side to the subscribers for using the service in international telecommunications. The author has been presiding the Tariffs Group for Europe and the Mediterranean Basin (TEUREM Group) of the CCITT since 1969. He describes the method developed and followed by the members of this international group and provides criteria and data on prime cost and tariffs for different telecommunication services.

News Items

Telephone

In **Fribourg** a new **telephone exchange** was opened on 26 October 1981, which allows to provide more PTT specialized services through three-digit numbers.

In October additional **telephone circuits** were established with European (66) over cable and to overseas countries (22) over satellite.

Since 1 November the **international direct dialling** (IDD) has been available from Switzerland to Gabon, Mali, French Guyana, St. Pierre as well as Miquelon. Swiss subscribers can now dial directly to 150 countries.

Teleinformatics

Public facsimile service was extended to Peru on 1 October. Thus, 20 countries are now connected to this service.

Since 1 December **automatic telex service** has been available to Anguilla, Guinea, Guyana, Korea (Democratic People's Republic), Montserrat, St. Christopher-Nevis and Yemen (Arab Republic).

Radio, Television

The **central information and coordination office at Säntis** has started its activ-

ity on trial basis in order to improve the operation of the CATV microwave network in mid-October.

Due to the **great demand for the car-phone service** the PTT has decided to implement a second **Natel** Swiss network in addition the two regional network for Zurich and Lucerne.

Local radiopaging services will be provided in **Zurich and Berne** from 15 January onwards. This is a one-way selective call service in those areas allowing personnel to be reached by dialling over the public telephone network.

Miscellaneous

The **shortwave** (HF) radio link for trunk and international circuits must contain at least one digital path in the trunk network for all trunk exchanges by 1990 according to the plan of 1982—1986/1991.

In the future **transatlantic cable** (TAT-8), planned for 1988, the PTT foresees to secure the right to operate around 1250 telephone circuits. The fibre optical cable and digital transmission technique will be implemented in this project.

In order to prove the functional and operational capability of the **video telephone**, an experimental network with six stations is installed in the Berne—Solothurn area at present.