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## Summaries

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### Measuring Technique to Determine Phase Noise Spectrum

K. Hilty, Berne

First the theoretical basis and the relationships between the various measurement values are explained. Then a phase noise measuring setup capable of evaluating the phase noise spectral density of an oscillator in the 4 kHz to 500 MHz band is presented. The measuring system, which is suitable for lab as well as field testing, has a self-noise of less than -160 dB/rad for Fourier frequencies above 10 Hz.

p. 16...21

### Elevator Systems of the Zurich-Herdern Telecommunications Centre

R. Remund, Berne

A fairly large number of elevators are needed in a centre of this size. These are described in the first part, while the second part deals with the façade elevators of the operations building.

p. 22...25

### Use of Special Vehicles in the Telecommunications Service

W. Ryf and B. Schmocker, Berne

The equipment and use of the various special vehicles available to the Telephone Regions' engineering and operating divisions as well as the radio and television departments are presented. The second part deals with the most common types of vehicle used by the General Directorate divisions in charge of engineering, radio and television.

## News Items

### Telephone

During the winter months, **telephone No 120, Tourist Information**, now gives **snow and skiing reports** as well as **avalanche warnings** in addition to details of Switzerland's main events. The service is provided in conjunction with the Swiss National Tourist Office.

According to the PTT's revised 10-year plan for coaxial and microwave systems, Switzerland's first **optical trunk cable** and 140 Mbit/s pcm installations will come into operation in 1987/88.

A **third international gateway exchange** was opened at **Berne** in November 1979. It can accommodate 850 incoming circuits and has an ultimate capacity of 1000. To meet traffic growth, a further international exchange will be needed in 1985.

**International billing data** as well as traffic distribution and service quality data are now recorded by means of modern, easily adaptable computer-controlled equipment in all Swiss gateway exchanges.

**Additional satellite circuits** to New York (12), Pittsburgh (12), Taipei (2) and Seoul (1) were opened via Raisting or Plemeur-Bodou earth stations in October and November 1979.

**Semi-automatic telephone service to Zambia** has been available since 1 November 1979.

Some 30 information suppliers are participating in the PTT's **videotex pilot trial**, which started on 15 November 1979.

### Telegraph, Telex

Switzerland's **second electronic, programme-controlled telex and data exchange** was commissioned at Geneva in November 1979. At the same time the programmes were tested for a 300 bit/s experimental network which is to be built shortly.

PTT Telecommunications has ordered **480 facsimile machines 3M 2346** for the **tentative rental service** it plans to start in the first half of 1980.

The Administrations of France and Switzerland have agreed to open a **2 Mbit/s data-over-voice link between Paris and Berne** at the end of 1981.

### Radio, Television

Initial talks were held between Swiss and Italian PTT representatives at Rome in October 1979 about the problem of **commercial radio and television stations operating in the Italian border region** and broadcasting programmes and advertisements to Switzerland in contravention of international telecommunication agreements.

### Miscellaneous

The automatic control systems of the **Geneva and Zurich pneumatic tube networks** have been equipped with microprocessor-controlled switches which prevent the forwarding of containers (with, e.g., telegrams) to customers outside office hours when terminals are unattended.