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## Summaries

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### **Pulse Noise Behaviour of Phase-modulated Radiotelephone Receivers**

P. König, Berne

In Part I, formulas are established for the calculation of the pulse signal-to-noise ratios for wanted carrier signals of any size, modulation and deviation from the middle of the band. A comparison with the measurement results obtained on a circuit model shows that these approximate solutions reproduce the pulse behaviour of the receivers with sufficient accuracy for practical purposes. They will form the basis for the discussion about possible equipment improvements to be reported in Part II.

p. 396...402

### **Calculation of Physical Construction with Computer to Avoid Damage by Water from Condensation (System E.H. Weber)**

E. H. Weber, Berne

New building features such as flat roofs, multi-layer outer walls, etc., call for more exact calculation of physical quantities needed in construction, if damage caused by water from condensation is to be avoided. After briefly reviewing the conventional methods and their limitations, the author describes his own mode of calculation, which gives more accurate results. The use of a specially programmed computer enables the method to be further refined. Its working is illustrated by an example.

p. 403...408

### **The Telecommunication Facilities in the new Centre for International Conferences in Geneva**

M. Béhar and R. Eberlé, Geneva

A new conference centre has been erected in Geneva by the Real Estate Foundation for International Organizations in Geneva, an institution under private law in which the Swiss Confederation, the canton and the city of Geneva are represented. Besides some special constructional features, the communication facilities required for the smooth functioning of the centre are described.

p. 409...412

### **The Mobile Telegraph Office**

R. Hostettler, Berne

A PTT-designed van accommodating Switzerland's first mobile telegraph office is described which handles telegrams, telex messages, phototelegrams and telephone calls. Intended chiefly for temporary operation during sports and other public events, it can also be used in emergencies. The van is equipped with 8 teleprinter positions, 2 attended telephones, 3 picture connections and a v.f.t. terminal. It can immediately be put into operation after connection to the nearest telephone exchange.

## News Items

### Posts

The PTT Board of Directors has decided to maintain two mail deliveries a day from Monday to Friday in spite of staffing difficulties. Only in areas with an acute shortage of postmen may service be temporarily restricted to one delivery. This decision has been taken in view of strong public opinion on the subject.

### Telephone

The PTT and the city of Zurich have agreed on a site for the new **Zurich III trunk service centre**. It will be built at an estimated cost of 97 million francs, that is 12 million more than for an earlier project which had to be abandoned because of local opposition.

The British-made «Possum» telephone dialling unit for invalids has been admitted in Switzerland. Connected to a loudspeaking station, it enables users to set up calls by blowing or sucking at a small tube.

A 7th semi-automatic circuit has been opened between **Zurich and Beyrouth**.

The **Zurich-Tokyo circuits**, reduced by 3 to 33 after Italy's withdrawal from the **Japan Pool**, were again increased to 36 in July because of heavy demand.

An additional 10 **New York-Berne and Pittsburgh-Zurich satellite circuits** were opened in July.

The **Berne-Bagdad radiotelephone link** has been equipped with **Lincompex terminals**.

At the **Swiss satellite earthstation** under construction at **Leuk** (Valais) the reflector framework, d.c. power plant and operating rooms for the 30-metre antenna have been completed.

Of the 38.3 million **international call minutes from Switzerland** in March and April, 31.4 million or **82% were dialled direct by the subscribers**. The **ISD** proportion rose by 5.6% over the same period of last year and was 9% higher than the 1972 average.

The **first 12-MHz coaxial cable link between Switzerland and France** has come into operation on the Basle-Mulhouse route. An existing 4-MHz plant will also be converted to 12-MHz working.

## Telegraphs, Telex

The Zurich **telegram switching centre (ATECO)** has introduced a **programme for automatic word count and collation-line production** for telegrams sent in by telex subscribers. The new facility, which relieves operators of tedious routine work, has speeded up printergram handling and resulted in staff savings.

## Radio, Television

In difficult terrain near Lucerne, radio experts from Germany, the Netherlands and Switzerland have conducted **propagation tests with a new narrow-band system** enabling additional programmes to be broadcast over a 100-kHz VHF channel whose spectrum is not fully used by a standard transmitter.

During their 1972 campaign to recover old telephone directories, the **Swiss Radio and TV Welfare Organization** collected 1.5 million kg of waste paper. From the proceeds, **639 radios and 223 TV sets** were bought for invalids, old-age pensioners, schools and homes.

## Miscellaneous

The **four Swiss Federal computing centres** (Railways, Defence, Statistical Office and PTT) are arranging **joint training courses** for their personnel. In this way, new staff members can be given their basic training in data processing without the assistance of system suppliers.

Some 8000 Geneva pupils between 13 and 16 years of age have been acquainted with **PTT careers** by means of a **travelling exhibition** and a series of talks and discussions held at their schools.