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## Summaries

p. 2...18

### New Communications Intelsat V Satellite

P. Breu, Berne

The Intelsat worldwide communications satellite network requires replacement of its geostationary satellites at more or less regular intervals due to limited life span as well as increasing demand for transmission capacity. This paper describes the technical characteristics and innovations of the satellite type IS V and compares a few selected features with the currently operational IS IV-A. The new communications satellite call for modifications on the existing earth stations. The Leuk earth station illustrates this point.

p. 19...28

### New Line Selector LW 700

R. Burkhard, Solothurn

The current line selectors Model 56 and Model 60 for intercommunications are going to be replaced by a new set LW 700 at the beginning of 1981. This new set is program-controlled and of modular construction. A maximum of 15 line selectors can be connected to a PABX. The subscriber can now receive more diversified services due to improved electronic components. The holder of A-licence with corresponding additional training is responsible for the installation.

p. 29...33

### Pattern Recognition and Its Application

J. Schürmann, Ulm

The author treats the subject of script recognition after briefly discussing the new application possibilities of automation in finding innovative solutions to the pattern recognition, which is partly due to integrated circuits and data processing. He describes the single character and the character string recognition as well as the text comprehension. The principle of pattern recognition can also be applied to speech recognition and image processing. Finally, as an example, the cell image processing is mentioned which was used within the scope of a cancer cell research project.

## News Items

### Telephone

The PTT acquired eight additional **digital 2/8 Mbit/s Multiplexers**, easily transportable within coffer, of 120 telephone channel capacity for the **temporary digital radio relay links**. These equipments are used during alteration of district and longdistance exchanges, big sport events as well as catastrophic cases.

On 10 December 1980 the **10 000th telephone of the Principality of Liechtenstein** came into operation.

**International circuits** from and to Switzerland increased by 267 over cable and 50 over satellite during the months of October and November 1980.

**Direct satellite link to Uruguay** via Leuk earth station was opened on 17 November 1980. This link replaces the **last Swiss shortwave telephone link**. At present 384 circuits with 19 extra-European countries are connected directly to Switzerland via Leuk earth station.

In the beginning of December 1980, **4 satellite circuits to Brazil** via Leuk earth station were established. Thus, 500 permanent circuits are connecting Switzerland to 36 extra-European countries.

### Teleinformatics

The **first official telefax directory** with more than 200 subscribers meeting the CCITT Group 2 standard (duration 3 minutes) is published in November 1980.

In January 1981 the **Intelpost** (*International Electronic Post*) service between **Switzerland and Canada** (Toronto) will be taken into operation on a trial basis. This will allow transmission of texts, sketches and drawings over a telecommunication channel between post offices with stored-program facsimile system.

**Swiss packet node** switching centre for the **Euronet** became operation on 29 October 1980. Inauguration of this facility took place with a demonstration on the possibilities and on the information handling capability with about 30 data banks on 24 November 1980.

### Radio, Television

The **tunnel communications** of the **Seelisberg road tunnel** was opened by the Swiss PTT on 12 December 1980.

The **appeal to the closing order for the «Radio 24» transmitter** was rejected by the Milan's police court on 18 November 1980. The «Radio 24» broadcast to the Zurich region from a border station, which was in the meantime closed down by the Italian authority.

The PTT provides **70 circuits** for reporting the **expected release of the American hostages in Iran** to the Swiss Broadcasting Corporation and the three American Networks at the Zurich-Kloten and Geneva-Cointrin airports.

In 1980, 87 out of 136 candidates from **licensed radio and television installation firms** were successful for certifications in technical supervision.