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Summaries

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Ingress interference to signals within the cable TV distribution network

Heinz Brand, Berne and Hermann Gysel, San Jose, USA

When the direct reception at home is possible from different TV transmitters, the ingress interference will become a problem in coaxial cable TV distribution networks. However, the signal quality should be especially high at that occasion in the cable distribution network. The cable TV frequency plan shall be selected such that the ingress interference will have negligible subjective effect on the picture quality. In this study this is realized by incrementally related carriers with a frequency offset against standard frequency plan. Each visual carrier is phase locked to one component of the set of reference frequencies. At the same time, this principle allows improvement in intermodulation such as carrier to composite triple beat ratio as desired in multiple channels network with harmonically related carriers. The permitted interference field strength can be estimated with the help of data on shielding factor of installation material and of home receiver. Thus, the frequency plan can be determined for the cable distribution system. The data are provided on the Basel cable TV distribution project as example.

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Project for the electronic message handling services — Comtex

Rolf Hostettler, Berne

This article provides the PTT's response to the development of electronic message handling system and the preparatory work conducted so far. Modern message handling services on the basis of CCITT series of Recommendations X.400 are developed within the Comtex project which includes the existing text and telegram switching services.

P. 406...418

New concept of the inventory control by EDP for telecommunication parts

Alois Wiederkehr and Kurt Birrer, Berne

The PTT directs 20 warehouses for about 30 000 parts of telecommunication equipment with an inventory value of more than 300 million Swiss francs. A rationalized inventory control is only possible

with the help of electronic data processing (EDP). Therefore, the PTT has been employing this valuable means since 1960s. The information system Matico FM has been in operation since 1971. After 14 years of good services, this is now re-

vised and a new plan has been conceived. This paper provides a survey on the present and the new system. Subsequently, it shows the step which was taken to plan and to realize this new inventory control by EDP.

News Items

Telephone

The number of telephone customers on the **3-month-plus waiting list** increased by 68 to 4006 at the end of the first half-year of 1985. This number corresponds to 0.12 pc of the Swiss telephone subscribers. The reasons are occupied cable, missing free lines, missing house installations or buildings still under construction.

Teleinformatics

Since 1 August the **telex traffic with ships** is automated. They are reachable on the high seas via **Inmarsat system**.

In the first half of 1985, subscribers were provided with **3386 telex SP 300 sets** by the regional telecommunication directorates. These sets occupy 61.4 pc of all Swiss sets connected to the telex network at the end of June.

In the **worldwide data network of the Swissair**, connecting the nodes of **Zurich, Geneva and Lausanne**, the digital component of **time multiplex system**

ZD-A3 from Siemens Co for 64 kbit/s link was taken into operation.

Radio, Television

The **Eurosignal** operational trial was conducted recently with subscribers. This allows radio paging reception in Switzerland, Federal Republic of Germany and France.

The television studio of the Italian speaking region of Switzerland received the second **TV recording van** which replaces the first generation of 1970. This will be mainly used for sports and inserts.

At the end of June, the total number of 1342 customers were waiting for a line with the **national car telephone network Natel** and 29 for a line in the regional network.

This year at the **Fera (international TV, radio and HiFi fair)** in **Zurich**, the PTT supplied information on satellite TV, types of satellites, techniques, cost, service area, availability of programmes, and receiving equipment. Further, the possibility of videotex and of radio wired broadcasting via telephone lines was spread among visitors.