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Summaries

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Peak Traffic Tests for the ATECO Message Switching System

J.-J. Jaquier and K. Dieterle, Berne

Peak traffic tests or capacity tests form a major group of the various tests necessary for the development and setting up of a message switching system. They permit us, on the one hand, to control whether the equipment delivered meets our dimensioning specifications and, on the other, to verify that the standard of reliability of the programmes is sufficiently high. The article describes the capacity tests of the ATECO system and the methods applied in their preparation.

p. 373...391

Experience with Long-span Telephone Cables

B. Gnehm, Berne

After briefly outlining the development of long-span telephone cables, the author deals with unexpected damage by «twisting» and explains the theoretical and practical tests which have lead to the construction of new types of long-span cable.

p. 392...398

Forces and Deformations in Armoured Cables under Tension

M. Wiedmer, Berne

The main quantities obtained by calculation of the forces and deformations in armoured long-span cables are the compression of the core and the length of lay of the armouring. From these can be explained the mechanism leading to so-called twisting, which has given rise to this study. The author's final remarks are on the dimensioning of cable armour.

p. 399...404

Modem Tester DMX-1

H. P. Lutz, Berne

The article presents a new device for functional testing of f.m. modems (in particular PTT models) on voice channels and describes the various tests, which are quick and easy to perform.

News Items

Telephone

From 1 August to 12 September, **10 Swiss PTT telephonists and 5 telegraphists** will be assisting the German Federal Post Office in handling telecommunications at **Olympic Games sites Munich and Kiel.** Other administrations are also sending staff.

Telephone service between Switzerland and Israel will become automatic in August. In view of the heavily increasing demand, **3 additional cable and 3 satellite circuits** have been put into operation, bringing the total number of lines up to 20.

In July the **steadily growing demand for telephone service between Europe and Japan** was met by another **increase in Zurich–Tokyo pool circuits.** Of the 33 lines now available, 18 are routed via satellite and 15 via cable.

In the 1st half of 1972, Swiss PTT put into operation **23 new exchanges and 74 extensions** for a total of 85,000 subscribers. Over the same period 49,000 customers with more than 85,000 sets were connected to the Swiss telephone system.

In the first half of this year, **100 exchanges were equipped for International Subscriber Dialling.** At the end of June, 1.45 million Swiss customers (69%) had access to this facility.

Telegraph, Telex

In June **automatic international telex calls** (terminal and transit) from Switzerland passed the **3-million mark,** having exceeded 1 million in 1964 and 2 million in 1969.

Radio, Television

In the Grisons further 5 new **TV transposers** (4 for the French-spoken and 1 for the Italian-spoken Swiss program) have been put into operation.

Miscellaneous

In July **construction work** began at the site of the **future Swiss satellite earth station** in Leuk (Valais).

At the end of July, the **Swiss PTT Research and Development Department** moved to a building of its own at Berne-Ostermundigen.

The 1971 collection of old telephone directories produced 2 million kg of waste paper. With the proceeds from this campaign, 608 radios and 188 television sets were bought for invalids, old-age pensioners, homes and schools.

In mid-July **the 5,000th subscriber was connected to the Swiss paging service.** This unidirectional and selective call service in connection with the public telephone network was introduced in Switzerland in 1954. It consists today not only of a nationwide network but also of two particular networks, one for the north, the other for the south of the Alps.