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Summaries

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Message Switching with Processors

J.-J. Jaquier, Berne

The author describes the historical development of message switching from the early manually operated equipment to the modern processor controlled system. The operating functions and characteristics of a switching centre are explained as well as several possible hardware arrangements. The software structure, the reliability problem and the available means of guaranteed uninterrupted operation have also been treated. Finally, it is shown that the transmission network for packet switching is the logical extension of message switching.

p. 70...76

Requirements and Preliminary Work for a Central Management System (CMS) for the Technical Installations of Zurich-Mülligen Postal Centre

F. Hegi, Berne

The requirements for efficient management of the centre's technical plant are listed. It is shown that they can best be met by means of a Central Management System (CMS). The main features and structure of a CMS are explained. The application principles are an important consideration at the planning stage. The overall technical solution and the main considerations governing personnel organization are dealt with. Finally, economic aspects as well as the present state and the next stages of the project are discussed.

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Development Trends in Phono Technique

K. Welland, Hannover and
H. Redlich, Berlin

Some 100 years after the invention of the phonograph, a fundamental change is taking shape in the domain of phono technique. New technologies and LSI will allow mechanical, analogue recording and playback to be replaced by digital techniques offering many advantages. As a precondition, however, international standards are required which do not obstruct development. The authors present the standard proposed by Telefunken-Decca for a piezoelectrically scanned PCM record. They draw attention to the fact that in addition to this pickup technique, there are other systems with or without physical contact, so that agreement may be difficult.