

Abstracts

Signal Processing at 4.5 Gbit/s with Si - ICs for Optical Transmission Systems

G. Hanke. "Signal Processing at 4.5 Gbit/s with Si - ICs for Optical Transmission Systems." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 853-856.

In the trunk network of Deutsche Bundes-post optical transmission systems working at 2.4 Gbit/s will be implemented in the near future. This bitrate can be processed with commercial monolithic integrated GaAs-circuits. For higher bitrates, such as 4.5 Gbit/s, monolithic integrated Si - ICs must be used at the time being. In this paper it is shown that with only a few different types of ICs all the components for a transmission system can be built up using a sophisticated circuitry.

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