

# Digital Transmission Systems

- Superior performance over analog counterparts.
- Ideal channel for data communications.
- Compatible with digital computing and storage techniques.
- Optical fiber communication suited for baseband digital transmission.



# Optimization Of Digital Transmission Systems

**Patrick R. Trischitta, Eve L. Varma**

## Optimization Of Digital Transmission Systems:

*Optimization of Digital Transmission Systems* Karlheinz Tröndle, Günter Söder, 1987    *Jitter in Digital Transmission Systems* Patrick R. Trischitta, Eve L. Varma, 1989    **Optimization of Modulation Constrained Digital Transmission Systems** Yu Han, 2018

The regular waterfilling WF policy maximizes the mutual information of parallel channels when the inputs are Gaussian. However, Gaussian input is ideal, which does not exist in reality. Discrete constellations are usually used instead, such as M PAM and M QAM. As a result, the mercury waterfilling MWF policy is introduced, which is a generalization of the regular WF. The MWF applies to inputs with arbitrary distributions, while the regular WF only applies to Gaussian inputs. The MWF based optimal power allocation OPA is presented, for which an algorithm called the internal external bisection method is introduced. The constellation constrained capacity is discussed in the thesis, where explicit expressions are presented. The expression contains an integral which does not have a closed form solution. However, it can be evaluated via the Monte Carlo method. An approximation of the constellation constrained capacity based on the sphere packing method is introduced, whose OPA is a convex optimization problem. The CVX was used initially, but it did not generate satisfactory results. Therefore, the bisection method is used instead. Capacities of the MWF and its sphere packing approximation are evaluated for various cases and compared with each other. It turns out that the sphere packing approximation has similar performances to the MWF, which validates the approximation. Unlike the MWF, the sphere packing approximation does not suffer from the loss of precision due to the structure of MMSE functions, which demonstrates its robustness.

Precoding Techniques for Digital Communication Systems C.-C. Kuo, Shang-Ho Tsai, Layla Tadjpour, Yu-Hao Chang, 2008-09-18

During the past two decades, many communication techniques have been developed to achieve various goals, such as higher data rate, more robust link quality, and more user capacity in more rigorous channel conditions. The most well-known are, for instance, CDMA, OFDM, MIMO, multiuser OFDM, and UWB systems. All these systems have their own unique superiority, while they also induce other drawbacks that limit the system performance. Conventional way to overcome the drawback is to impose most of the computational effort in the receiver side and let the transmitter design much simpler than the receiver. The fact is that, however, by leveraging reasonable computational effort to the transmitter, the receiver design can be greatly simplified. For instance, multiaccess interference (MAI) has long been considered to limit the performance of multiuser systems. Popular solutions to mitigate MAI issue include multiuser detection (MUD) or sophisticated signal processing for interference cancellation, such as PIC or SIC. However, those solutions impose great burden in the receiver. In this case, precoding offers good solutions to achieve simple transceiver designs, as we will mention later in this book. This book is intended to provide a comprehensive review of precoding techniques for digital communications systems from a signal processing perspective. The variety of selected precoding techniques and their applications makes this book quite different from other texts about precoding techniques in digital communication engineering.

**Investigation of Digital Data Communications System** John George Lawton, 1962

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