



# Fiber-Optic Transmission Networks: Efficient Design and Dynamic Operation (Signals and Communication Technology)

*Stephan Pachnicke*

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## **Fiber-Optic Transmission Networks: Efficient Design and Dynamic Operation (Signals and Communication Technology) Stephan Pachnicke**

Next generation optical communication systems will have to transport a significantly increased data volume at a reduced cost per transmitted bit. To achieve these ambitious goals optimum design is crucial in combination with dynamic adaptation to actual traffic demands and improved energy efficiency.

*In the first part* of the book the author elaborates on the design of optical transmission systems. Several methods for efficient numerical simulation are presented ranging from meta-model based optimization to parallelization techniques for solving the nonlinear Schrödinger equation. Furthermore, fast analytical and semi-analytical models are described to estimate the various degradation effects occurring on the transmission line.

*In the second part* of the book operational aspects of optical networks are investigated. Physical layer impairment-aware routing and regenerator placement are studied. Finally, it is analyzed how the energy efficiency of a multi-layer optical core network can be increased by dynamic adaptation to traffic patterns changing in the course of the day.

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