

New Theories in the Current Field of Optical Fiber Communication

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In summary, the ongoing studies into the behaviors of light in fiber systems suggest that these technologies are not only feasible but also essential for the future of communication.

This review study explores the developments, issues, and prospects of fiber optic communication technologies that comprise current highspeed low delay networks, and the latest technologies like ...

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The main directions of FOTS development are the improvement of active equipment and optical fiber lines. This paper is devoted to the trends in the development of active FOTS equipment.

The field continues to evolve rapidly, with recent advances pushing the boundaries of performance, efficiency, and application versatility. Here, we delve into some of the most significant ...

To improve explainability and interpretability of ML algorithms in optical communications, and to gain novel knowledge about fiber-optic communications, we need to invent novel ML methods ...

This paper gives an overview of fiber optic communication systems including their key technologies, and also discusses their technological trend towards the next generation.

This special issue focuses on all aspects of the latest research and advancements in optical fibres and fibre sensors, encompassing the exploration of new materials, novel structures, ...

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