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Fiber-optic communication systems are lightwave systems that employ optical fibers for information transmission. Such systems have been deployed worldwide since 1980 and have indeed revolutionized the

technology behind telecommunications.

[Fiber-Optic Communication Systems, 4th Edition | Wiley](#)

Agrawal was elected as the fellow of Optical Society of America (OSA) in 1986. In 1996, he was elected as the fellow of IEEE for "contributions to the development and understanding of semiconductor lasers and fiber-optic communications systems."

Fiber-Optic Communication Systems, Third Edition, by ...

GOVIND P. AGRAWAL is a professor at the Institute of Optics at the University of Rochester and a Fellow of both the Optical Society of America and the Institute of Electrical and Electronics Engineering. He is also a Senior Scientist at the Laboratory for Laser Energetics.

Govind P. Agrawal - Wikipedia

Fiber-Optic Communication Systems, 4th Edition. The second chapter focuses on new techniques such as all-optical regeneration that are under development and likely to be used in future communication systems. All other chapters are updated, as well.

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Used worldwide as a textbook in many universities, Fiber-Optic Communication Systems is intended primarily for graduate students of fiber-optic communications. It is also a valuable resource for undergraduate courses at the senior level, as well as an indispensable professional reference for engineers and technicians in the telecommunications industry and scientists working in the fields of fiber optics and optical communications.

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by Govind P. Agrawal. Fiber-Optic Communication Systems offers comprehensive, up-to-date coverage of fiber-optic communication systems with an emphasis on physical understanding and engineering aspects. Fiber-Optic Communication Systems covers both the systems and components aspects of fiber-optic communication systems with a focus on the physics and technology behind them.

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Optical Fibers • Most suitable as communication channel because of dielectric waveguiding (acts like an optical wire). • Total internal reflection at the core-cladding interface confines light to fiber core. • Single-mode propagation for core size $< 10 \mu\text{m}$. What happens to optical signal?

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Govind P Agrawal. Abstract. A comprehensive study of the state-of-the-art fiber-optic communication systems is presented which can be used as both a textbook and a reference monograph. The emphasis is place on a physical understanding of this complex technology, from the most basic concepts to the latest innovations.

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GOVIND P. AGRAWAL is a professor at the Institute of Optics at the University of Rochester and a Fellow of both the Optical Society of America and the Institute of Electrical and Electronics Engineering. He is the author or coauthor of over 300 research papers, book chapters, and monographs.