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Her research interests include applications of nonlinear optics, optical signal processing for communication systems and fiber lasers. She has authored more than 100 publications in international peer-reviewed journals and conferences. She is a Senior Member of the Optical Society and has been a frequent reviewer of several IEEE and OSA journals.

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Fiber-Optic Communication Systems and Techniques provides solid background in wide ranging topics of fiber-optics. The topics covered include modes of optical fibers, impairments in optical fiber channel, lasers and photodiodes, optical amplifiers, WDM components, and digital fiber-optic communications.

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Advanced Optical Communication by Prof. R.K. Shevgaonkar, Department of Electronics & Communication Engineering , IIT Bombay. For more details on NPTEL visit ht...

~~Mod 01 Lec 01 Introduction — YouTube~~

Nobel Prize for Fibre Optics . Nobel Prize for Physics 2009 . Sir Charles K. Kao . for " groundbreaking achievements concerning the transmission of light in fibers for optical communication " Work was mainly done at Standard Telecommunication Laboratories (STL) in Harlow, England in 1960s, with ground-breaking predictions for use of glass

~~Lecture 3: Fibre Optics~~

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~~Introduction — Fiber Optic Communication Systems and ...~~

This course provides detailed insight of the field of optical biosensors and their basic working principles. Starting with the introduction of basic components, characteristics, performance parameters and fabrication techniques (lectures 1&2), this course brings the learner to the mesmerizing field of sensors based on basic principles of optics.

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An optical fiber is a cylindrical dielectric waveguide made of low-loss materials such as silica glass. It has a central core in which the light is guided, embedded in an outer cladding of slightly lower refractive index (Fig. 8.0-1). Light rays incident on the

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Abstract. The development of fiber optics has revolutionized the field of telecommunications making possible high-quality, high-capacity, long distance telephone links Over the past three decades, the advancements in optical fiber has undoubtedly improved and reshaped fiber optic technology. Today optical fibers are synonymous with the word "telecommunication".

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