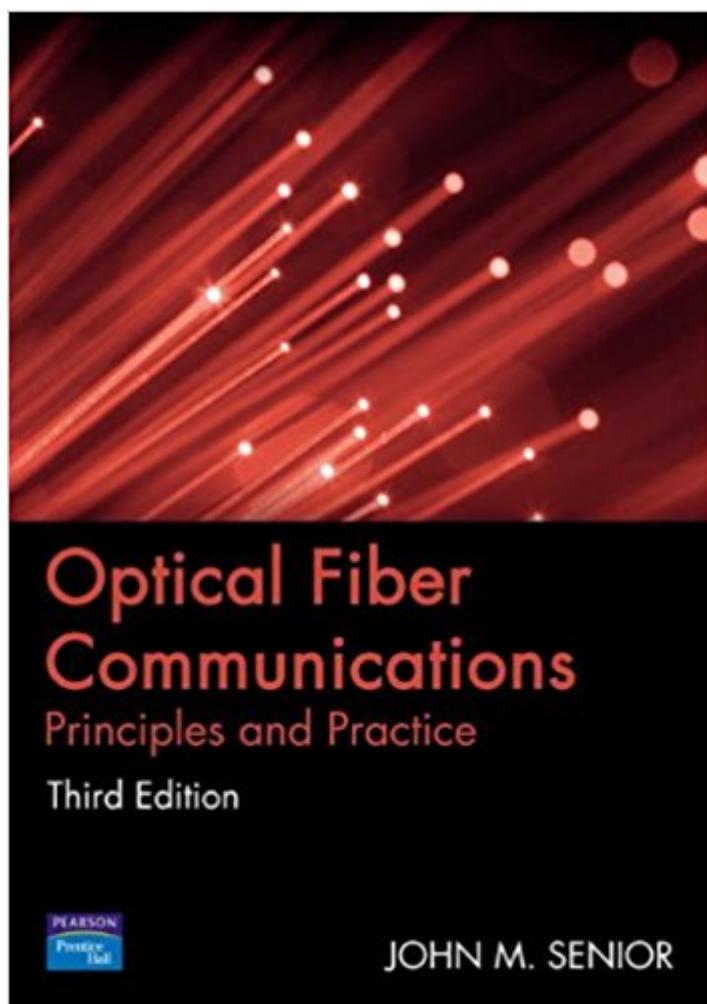


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# Optical Fiber Communications: Principles And Practice (3rd Edition)



## **Synopsis**

Senior is an established core text in a field that is growing fast, and in which technology is constantly evolving. The text succeeds in giving a practical introduction to the fundamentals, problems and techniques of design and utilisation of optical fiber systems. It is respected as the most comprehensive and practical book in the market. This new edition will retain all core features, while incorporating recent improvements and developments in the field. Optical fiber systems have now become more sophisticated and, as a result, are now the communication method of choice for many systems. New/additional material will include optical amplifiers, soliton systems and optical networks.

## **Book Information**

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## **Customer Reviews**

This highly successful book, now in its third edition, has been extensively updated to include both new developments and improvements to technology and their utilization within the optical fiber global communications network. The third edition, which contains an additional chapter and many new sections, is now structured into 15 chapters to facilitate a logical progression of the material, to enable both straightforward access to topics and provide an appropriate background and theoretical support. Key features An entirely new chapter on optical networks, incorporating wavelength routing and optical switching networks A restructured chapter providing new material on optical amplifier technology, wavelength conversion and regeneration, and another focusing entirely on integrated optics and photonics Many areas

have been updated, including: low water peak and high performance single-mode fibers, photonic crystal fibers, coherent and particularly phase-modulated systems, and optical networking techniques. Inclusion of relevant up-to-date standardization developments Mathematical fundamentals where appropriate Increased number of worked examples, problems and new references This new edition remains an extremely comprehensive introductory text with a practical orientation for undergraduates and postgraduate engineers and scientists. It provides excellent coverage of all aspects of the technology and encompasses the new developments in the field. Hence it continues to be of substantial benefit and assistance for practising engineers, technologists and scientists who need access to a wide-ranging and up-to-date reference to this continually expanding field. Professor John Senior is Pro Vice-Chancellor for Research and Dean of the Faculty of Engineering and Information Sciences at the University of Hertfordshire, UK.

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Terrible book to learn from. Might be a good reference, but very poor for undergrad fiber optics course. Lots of errors and very scattered information. Always find myself paging backwards and then forwards to find information that should be on the same page. Not a great undergrad text

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