

City of Light: The Story of Fiber Optics, 1999, 368 pages, Jeff Hecht, 0199883084, 9780199883080, Oxford University Press, 1999

City of Light tells the story of fiber optics, tracing its transformation from 19th-century parlor trick into the foundation of our global communications network. Written for a broad audience by a journalist who has covered the field for twenty years, the book is a lively account of both the people and the ideas behind this revolutionary technology. The basic concept underlying fiber optics was first explored in the 1840s when researchers used jets of water to guide light in laboratory demonstrations. The idea caught the public eye decades later when it was used to create stunning illuminated fountains at many of the great Victorian exhibitions. The modern version of fiber optics--using flexible glass fibers to transmit light--was discovered independently five times through the first half of the century, and one of its first key applications was the endoscope, which for the first time allowed physicians to look inside the body without surgery. Endoscopes became practical in 1956 when a college undergraduate discovered how to make solid glass fibers with a glass cladding. With the invention of the laser, researchers grew interested in optical communications. While Bell Labs and others tried to send laser beams through the atmosphere or hollow light pipes, a small group at Standard Telecommunication Laboratories looked at guiding light by transparent fibers. Led by the recipient of the 2009 Nobel Prize in Physics, Charles K. Kao, they proposed the idea of fiber-optic communications and demonstrated that contrary to what many researchers thought glass could be made clear enough to transmit light over great distances. Following these ideas, Corning Glass Works developed the first low-loss glass fibers in 1970. From this point fiber-optic communications developed rapidly. The first experimental phone links were tested on live telephone traffic in 1977 and within half a dozen years long-distance companies were laying fiber cables for their national backbone systems. In 1988, the first transatlantic fiber-optic cable connected Europe with North America, and now fiber optics are the key element in global communications. The story continues today as fiber optics spread through the communication grid that connects homes and offices, creating huge information pipelines and replacing copper wires. The book concludes with a look at some of the exciting potential developments of this technology.

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Technician's Guide to Fiber Optics , Donald J. Sterling, 2000, Fiber optics, 345 pages. This concise, current text provides an introduction to fiber optic technology for communications, covering the fundamentals in a precise style. An excellent primer for students.

Laser Focus with Fiberoptic Communications, Volume 16, Part 1 , , 1980, Lasers, . .

City of Light , Alison MacLeod, 1969, , . .

Single mode optical fibers August 23-24, 1983, San Diego, California, A. David Pearson, Society of Photo-optical Instrumentation Engineers, Oct 1, 1983, Technology & Engineering, 150 pages. .

Laser Pioneers , Jeff Hecht, 1992, Science, 298 pages. Jeff Hecht details the intriguing story of

laser-technology development through history. The revised edition of *Laser Pioneers* describes a race for innovative uses of the technology.

Story of Light, The , Hannah Spencer, Apr 25, 2014, Fiction, 364 pages. A faint echo of the past, a memory crossing the mists of time, was Bridget's first clue of a life she once lived. The first step of the journey to understand the most pondered.

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Fiber optics, advances in research and development , Bernard Bendow, Shashanka Shekhar Mitra, University of Rhode Island, 1979, Technology & Engineering, 693 pages. .

Understanding Fiber Optics , Jeff Hecht, 2006, Computers, 790 pages. This book is thorough, up to date, and provides comprehensive and intuitive introduction to fiber optics. With mathematics limited to basic algebra, the book takes a practical.

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Introduction to Laser Technology , C. Breck Hitz, James J. Ewing, Jeff Hecht, Apr 5, 2004, Technology & Engineering, 302 pages. Electrical Engineering Introduction to Laser Technology, Third Edition Would you like to know how a laser works, and how it can be modified for your own specific tasks? This.

Beam weapons the next arms race, Jeff Hecht, Apr 1, 1984, Fiction, 363 pages. Examines the development of laser and particle beam weapons and discusses the potential impact of these weapons on the arms race and balance of power.

The City of Light , Jacob D'Ancona, Jacob, 2003, History, 538 pages. In 1270, a scholarly Jewish merchant named Jacob d'Ancona set out on a voyage from Italy. A year later, he arrived in China at the coastal metropolis of Zaitun, the "City of.

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