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Since publication of the 1st edition in 2002, there has been a deep evolution of the global communication network with the entry of submarine cables in the Terabit era. Thanks to optical technologies, the transmission on a single fiber can achieve 1 billion simultaneous phone calls across the ocean!

Modern submarine optical cables are fueling the global internet backbone, surpassing by far all alternative techniques. This new edition of *Undersea Fiber Communication Systems* provides a detailed explanation of all technical aspects of undersea communications systems, with an emphasis on the most recent breakthroughs of optical submarine cable technologies. This fully updated new edition is the best resource for demystifying enabling optical technologies, equipment, operations, up to marine installations, and is an essential reference for those in contact with this field.

Each chapter of the book is written by key experts of their domain. The book assembles in a complementary way the contributions of authors from key suppliers acting in the domain, such as Alcatel-Lucent, Ciena, NEC, TE-Subcom, Xtera, from consultant and operators such as Axiom, OSI, Orange, and from University and organization references such as TelecomParisTech, and Suboptic.

This has ensured that the overall topics of submarine telecommunications is treated in a quite ecumenical, complete and un-biased approach.

- Features new content on:
 - Ultra-long haul submarine transmission technologies for telecommunications
 - Alternative submarine cable applications, such as scientific or oil and gas
- Addresses the development of high-speed networks for multiplying Internet and broadband services with:
 - Coherent optical technology for 100Gbit/s channels or above
 - Wet plant optical networking and configurability
- Provides a full overview of the evolution of the field conveys the strategic importance of large undersea projects with:

- Technical and organizational life cycle of a submarine network
- Upgrades of amplified submarine cables by coherent technology

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