



The ComSoc Guide to Passive Optical Networks: Enhancing the Last Mile Access (The ComSoc Guides to Communications Technologies)

By Stephen B. Weinstein, Yuanqiu Luo, Ting Wang

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Describes the major architectures, standards, and technologies of Passive Optical Networks (PONs)

The ComSoc Guide to Passive Optical Networks provides readers with a concise explanation of the key features of Passive Optical Networks (PONs); the different types of PON architectures and standards; key issues of PON devices, management, and implementation; and the promising business opportunities in access networks.

Written for a broad audience, ranging from developers to users, this indispensable book provides an understanding of the evolutionary path of PON access systems and their positioning with respect to the cable, copper, and wireless competitors for broadband access networks. In addition, The ComSoc Guide to Passive Optical Networks:

- Provides brief, high-level overviews of the architectures and applications of Fiber-to-the-Home (FTTH) or Fiber-to-the-Curb (FTTC) access networks and the alternative HFC, subscriber line, and WiMAX access systems
- Awards readers with a clear understanding of what BPON, GPON, WDM-PON and EPON are and how they work, together with an introduction to their respective standards
- Carefully defines all acronyms and technical terms, making the book accessible to those who may not be specialists in this area
- Gives readers an appreciation of the last mile problems in telecommunications access networks, and the opportunities in optical-wireless integration

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Editorial Review

About the Author

Stephen Weinstein, PhD, is an independent consultant (Communication Theory and Technology Consulting LLC) advising industrial clients and law firms. An IEEE Life Fellow, he invented the data-driven echo cancellation technique used in voiceband modems and pioneered the application of the Fast Fourier Transform to OFDM/DMT modulation.

Yuanqiu Luo, PhD, is a staff engineer in the advanced technology department of Futurewei (Huawei) Technologies. She is a co-editor of ITU-T Recommendations G.987 and G.987.3 and a clause editor of IEEE Standard 802.1AS. A recipient of the IEEE Standards Award in 2011, Dr. Luo has authored more than forty publications.

Ting Wang, PhD, is Department Head for NEC Laboratories America, Inc. Active in the IEEE Communications Society, Dr. Wang is Vice Chair of the Integrated Fiber & Wireless Technologies Committee, and is author of more than one hundred published papers.

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