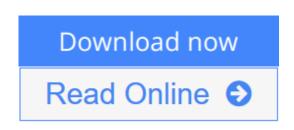


## Advanced Digital Optical Communications, Second Edition (Optics and Photonics)

By Le Nguyen Binh



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This second edition of *Digital Optical Communications* provides a comprehensive treatment of the modern aspects of coherent homodyne and self-coherent reception techniques using algorithms incorporated in digital signal processing (DSP) systems and DSP-based transmitters to overcome several linear and nonlinear transmission impairments and frequency mismatching between the local oscillator and the carrier, as well as clock recovery and cycle slips. These modern transmission systems have emerged as the core technology for Tera-bits per second (bps) and Peta-bps optical Internet for the near future.

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#### About the Author

Le Nguyen Binh is technical director of Huawei Technologies' European Research Center, Munich, Germany. He holds a BE (Hons) and Ph.D from the University of Western Australia, Crawley. He has authored and co-authored more than 300 journal papers and eight books, in addition to several refereeing conferences. Previously, he was professorial fellow at Nanyang Technological University of Singapore; the Christian Albrechts University of Kiel, Germany; and several Australian universities. He also served as Chair of Commission D (Electronics and Photonics) of the National Committee for Radio Sciences of the Australian Academy of Sciences (1995–2005).

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