



# Synchronization in Digital Communication Systems

By *Fuyun Ling*

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Do you need to know how to develop more efficient digital communication systems? Based on the author's experience of over thirty years in industrial design, this practical guide provides detailed coverage of synchronization subsystems and their relationship with other system components. Readers will gain a comprehensive understanding of the techniques needed for the design, performance analysis and implementation of synchronization functions for a range of different modern communication technologies. Specific topics covered include frequency-locked loops in wireless receivers, optimal OFDM timing phase determination and implementation, and interpolation filter design and analysis in digital resamplers. Numerous implementation examples help readers to develop the necessary practical skills, and slides summarizing key concepts accompany the book online. This is an invaluable guide and essential reference for both practicing engineers and graduate students working in digital communications.

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### About the Author

Fuyun Ling is an independent consultant at Twinclouds Consulting, San Diego, and an Adjunct Professor at Tsinghua University, China. He spent fourteen years at Qualcomm, where he was a Vice President of Technology. Before joining Qualcomm, he worked at Motorola for over thirteen years and served as an Adjunct Professor at Northeastern University, Massachusetts. Dr Ling is a Life Fellow of the Institute of Electrical and Electronics Engineers.

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