



Channel Equalization for Wireless Communications: From Concepts to Detailed Mathematics (IEEE Series on Digital & Mobile Communication)

Gregory E. Bottomley

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The most thorough, up-to-date reference on channel equalization—from basic concepts to complex modeling techniques

In today's instant-access society, a high premium is placed on information that can be stored and communicated effectively. As a result, storage densities and communications rates are being pushed to capacity, causing information symbols to interfere with one another. To help unclog pathways for the clearer conveyance of information, this book offers in-depth discussion of the significant contributions and future adaptability of channel equalization and a set of approaches for solving the problem of intersymbol interference (ISI). Chapter explorations in *Channel Equalization* include:

- Channel equalization topics presented with incremental learning methodology—from the very fundamental concept to more advanced mathematical knowledge
- Coverage of technology used in second-, third- and fourth-generation cellular communication systems
- A set of homework problems that reinforce concepts discussed in the book
- Tutorial explanations of recent developments currently captured in IEEE technical journals

Unlike existing digital communications books that devote cursory attention to channel equalization, this invaluable guide addresses a crucial need by focusing solely on the background, current state, and future direction of this increasingly important technology. A unique mix of basic concepts and complex frameworks for delivering digitized data make *Channel Equalization* a valuable reference for all practicing wireless communication engineers and students dealing with the pressing demands of the information age.

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