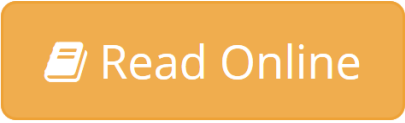



# CDMA Systems Engineering Handbook


By Jhong Sam Lee, Leonard E. Miller



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This text aims to strengthen the reader's knowledge of Code Division Multiple Access (CDMA) technology and build an understanding of the technical details and engineering design principles behind the IS-95 digital cellular system standard. It contains nearly 2000 equations and aims to teach techniques to help assess system modulation and convolutional code performance; optimize cellular system and Erlang capacity; design PN code generators for spread-spectrum applications; use masks to control PN code phase offsets for CDMA cells; and control CDMA forward link power allocation to help maximize system capacity.

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#### About the Author

Jhong S. Lee has nearly 40 years of experience in satellite communication systems, signal processing, electronic warfare, and spread-spectrum system analysis. He is president and CEO of J.S. Lee Associates, Inc., Maryland, an R&D firm specializing in DoD components and wireless communications systems for second generation digital cellular and PCS systems. The author of more than 70 technical articles and professional papers, he earned his D.Sc. in electrical engineering from The George Washington University, Washington, DC. Dr. Lee is a Fellow of the IEEE. Leonard E. Miller is vice president of research at J.S. Lee Associates, Inc., where he specializes in the analysis of military electronic support and communication systems. He has more than 30 years of experience in signal detection and electronic countermeasures, signal processing design, and electronic defense systems. Dr. Miller has published dozens of technical papers and has served as a reviewer for the IEEE. He earned his Ph.D. from the Catholic University of America, Washington, DC.

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