

Signal Design For Good Correlation

[DOWNLOAD HERE](#)

Comprehensive, up-to-date treatment of methodologies and applications including CDMA telephony, coded radar, and stream cipher generation. This book provides a comprehensive, up-to-date description of the methodologies and the application areas, throughout the range of digital communication, in which individual signals and sets of signals with favorable correlation properties play a central role. The necessary mathematical background is presented to explain how these signals are generated, and to show how they satisfy the appropriate correlation constraints. All the known methods to obtain balanced binary sequences with two-valued autocorrelation, many of them only recently discovered, are presented in depth. The authors treat important application areas including: Code Division Multiple Access (CDMA) signals, such as those already in widespread use for cell-phone communication, and planned for universal adoption in the various approaches to 'third-generation'(3G) cell-phone use, systems for coded radar and sonar signals, communication signals to minimize mutual interference ('cross-talk') in multi-user environments, and pseudo-random sequence generation for secure authentication and for stream cipher cryptology. EAN/ISBN : 9780511159466 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Golomb, Solomon W. - Gong, Guang

[DOWNLOAD HERE](#)

Similar manuals: