

## **Practical Digital Wireless Signals.**

McCune, Earl. *Remarkable Engineers - From Riquet to Shannon*. New York, NY: Cambridge University Press, 2010, 407 pp. \$85.00 (Hardbound).

Do you need to know what signal type to select for a wireless application? Quickly develop a useful expertise in digital modulation with this practical guide, based on the author's industry experience of more than 30 years. You will understand the physical meaning behind the mathematics of wireless signals and learn the intricacies and trade-offs in signal selection and design.

Key features:

- Six modulation families and 12 modulation types are covered in depth
- A quantitative ranking of relative cost incurred to implement any of 12 different modulation types
- Extensive discussions of the Shannon Limit, Nyquist filtering, efficiency measures, and signal-to noise measures
- Radio wave propagation and antennas, multiple access techniques, and signal coding principles are all covered
- Spread spectrum and wireless system operation requirements are presented.

Earl McCune is a practicing engineer and Silicon Valley entrepreneur. A graduate of UC Berkeley, Stanford University, and UC Davis, he has over 30 years of post-graduate industry experience in wireless communications circuits and systems. Now semi-retired, he has founded two successful start-up companies, each of them winning industrial awards for their technical innovation.