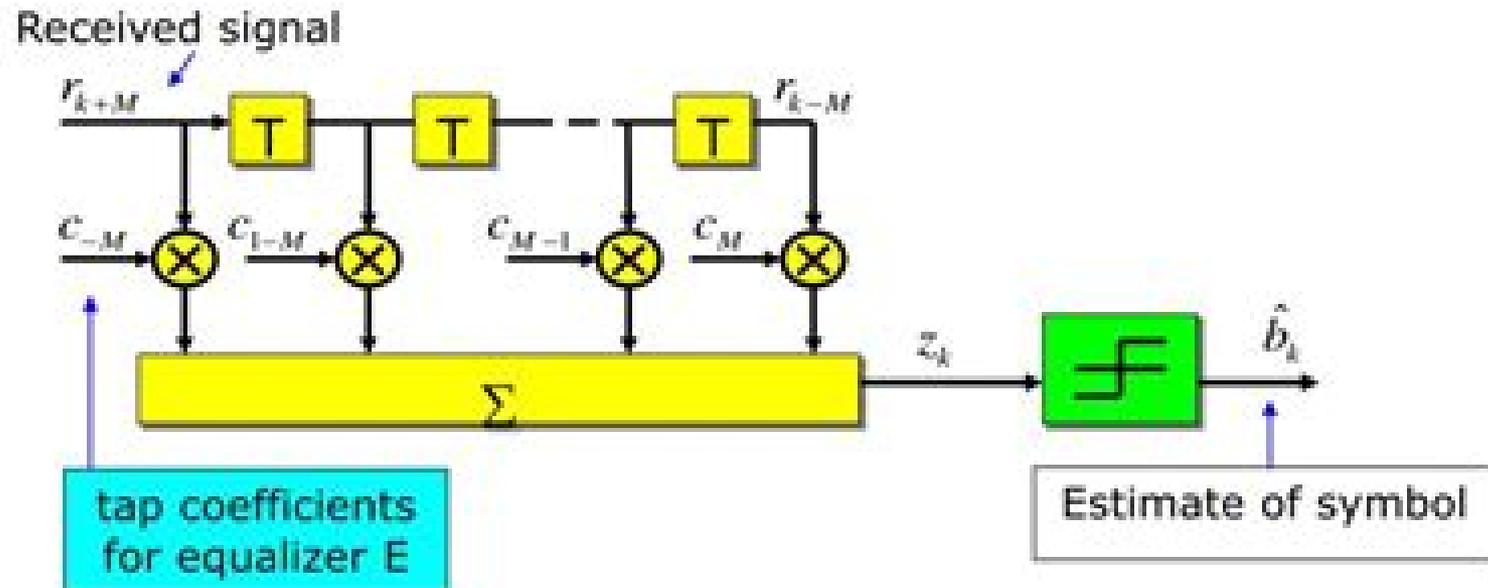


# Zero-Forcing Equalization

- Zero ISI at the receiver output
- $B(f)H(f)E(f)=Z(f)$
- $Z(f)$ : Nyquist spectrum e.g. raised cosine



# Matlab Code Zero Forcing Algorithm For Ofdm

**AW Rasmussen**



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Foundations of Antenna Engineering: A Unified Approach for Line-of-Sight and Multipath Per-Simon Kildal,2015-06-01

This is the first textbook that contains a holistic treatment of antennas both for traditional antennas mounted on masts Line of Sight antenna systems and for small antennas used on modern wireless devices such as smart phones being subject to signal variations fading due to multipath propagation The focus is on characterization as well as describing classical antennas by modern complex vector theory thereby linking together many disciplines such as electromagnetic theory classical antenna theory wave propagation and antenna system performance Overall this book represents a rethinking of the way basic antenna theory is presented The book contains many references to important old and new papers and books on the analysis and design of the most useful antenna types for the most interested readers

**Channel Coding Techniques for Wireless Communications** K. Deerga Rao,2019-11-22 This book discusses the latest channel coding techniques MIMO systems and 5G channel coding evolution It provides a comprehensive overview of channel coding covering modern techniques such as turbo codes low density parity check LDPC codes space time coding polar codes LT codes and Raptor codes as well as the traditional codes such as cyclic codes BCH RS codes and convolutional codes It also explores MIMO communications which is an effective method for high speed or high reliability wireless communications It also examines the evolution of 5G channel coding techniques Each of the 13 chapters features numerous illustrative examples for easy understanding of the coding techniques and MATLAB based programs are integrated in the text to enhance readers grasp of the underlying theories Further PC based MATLAB m files for illustrative examples are included for students and researchers involved in advanced and current concepts of coding theory

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