

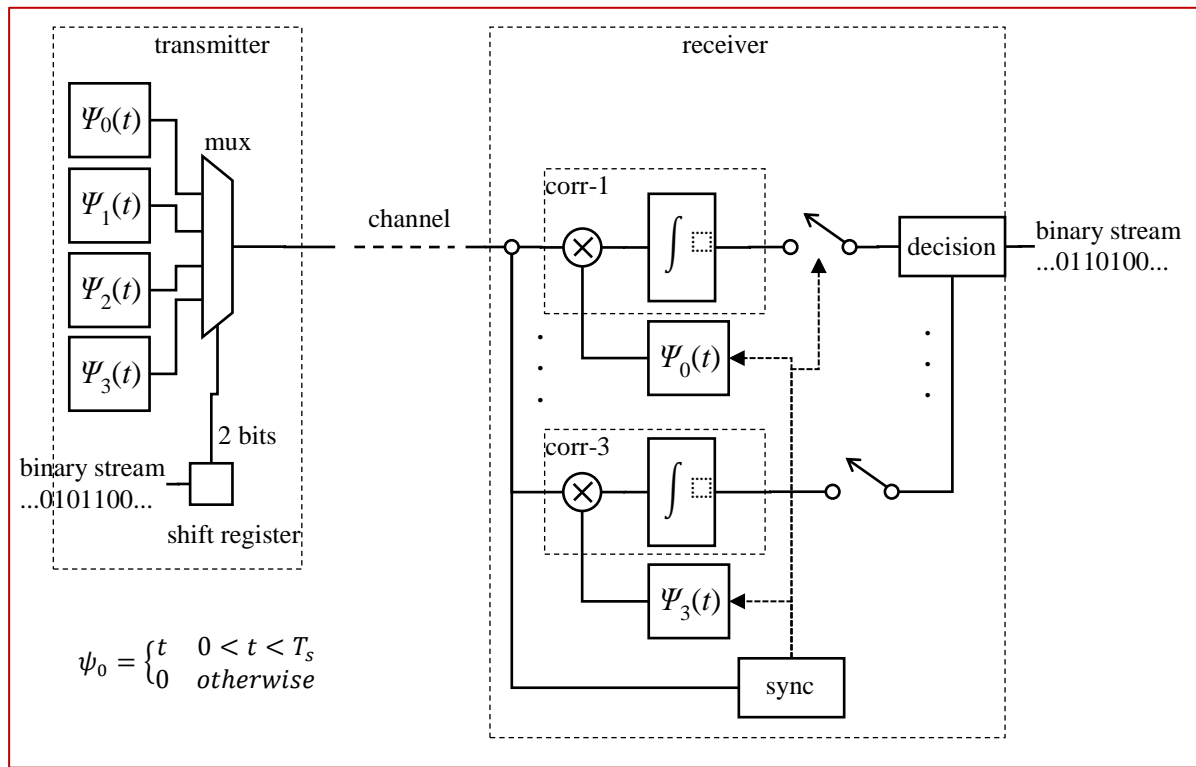
No :

Name :

Eskişehir Osmangazi University, Faculty of Engineering and Architecture

Department of Electrical Engineering & Electronics, "Communications" Homework 10.04.2022

The following quaternary (M=4) baseband communication system and one of the waveforms representing one of the symbols are given.



- Find remaining waveforms that are either orthogonal or make up an antipodal pair with the given. That is, you are expected to find ψ_1 , ψ_2 and ψ_3 . All waveforms should be either orthogonal to each other or pairwise antipodal and orthogonal to other pair(s). Hint: There is no single/unique solution. Everyone can find different waveforms.
- Determine correlator outputs at the decision instants for all waveforms.

Turn in:

Answers sheets (either printed or clearly written on A4) must be returned to my office (B305). Slide them in under my office door by 15.4.2022 Friday 12:00. No electronic forms will be accepted. No infringed / plagiarised answers will be evaluated. No late turn-ins will be accepted. Unreadable sheets will not be evaluated.