

## TIME DIVISION MULTIPLEXING AND DEMULTIPLEXING

**Objectives:**

1. To examine signal sampling, aliasing and signal reconstruction.
2. To implement a time division multiplexing system using MATLAB Simulink.

**Theory**

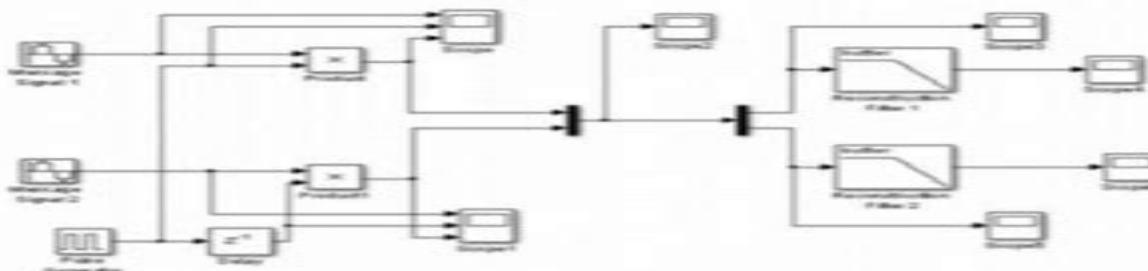
While two or more messages need to be transmitted in a RF channel simultaneously, some transmission schemes, such as TDM, FDM and CDMA, etc, have been proposed for satisfying this requirement. Among these, the TDM is the most fundamental one. The time division Multiplexer (TDM MUX) module is used to recombine two analog signals into one data stream. It should be noted that, each signal should be sampled at the Nyquist rate ( in order to avoid aliasing. Also, time division Demultiplexer (TDM DEMUX) is used to reconstruct the original signals from the multiplexed data stream. Multiplexing and Demultiplexing are illustrated in Fig. 1.



Fig. 1: Illustration of TDM MUX and TDM DEMUX

**Procedure**

1. Arrange the functional blocks as shown in Simulink model.
2. Assign required parameters to each functional block.
3. Observe the outputs on scope.

**Simulink Model**

# Time Division Multiplexing And Demultiplexing Lab Manual

**Wayne F. Westgate**

## Time Division Multiplexing And Demultiplexing Lab Manual:

Lab. Manual for CSE/CSE-DS/ AIML/AIDS students-A Practical Manual Dr. Rajiv Chopra,2025-02-21 Lab Manual for CSE CSE DS AIML AIDS Students By Dr Rajiv Chopra This book serves as a comprehensive lab manual for B Tech students specializing in Computer Science Data Science Artificial Intelligence and Machine Learning Designed with a practical and experiment based approach it bridges the gap between theory and real world application Covering essential programming concepts AI ML techniques and hands on exercises this manual equips students with the skills needed for modern computing challenges Ideal for CSE IT ECE and related disciplines this book encourages students to explore experiment and apply their knowledge effectively in labs and projects

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information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

*Time Division Multiplexing. 1: Sampling and Multiplexing Principles [and] Time Division Multiplexing. 2: Pulse Code Modulation (PCM) [and] Time Division Multiplexing. 3: Delta Modulation (DM)*. Degem Electronics,1976

Wavelength Division Multiplexing Klaus Grobe,Michael Eiselt,2013-09-12 In this book Optical Wavelength Division Multiplexing WDM is approached from a strictly practical and application oriented point of view Based on the characteristics and constraints of modern fiber optic components transport systems and fibers the text provides relevant rules of thumb and practical hints for technology selection WDM system and link dimensioning and also for network related aspects such as wavelength assignment and resilience mechanisms Actual 10 40 Gb s WDM systems are considered and a preview of the upcoming 100 Gb s systems and technologies for even higher bit rates is given as well Key features Considers WDM from ULH backbone big picture view down to PON access micro view Includes all major telecom and datacom applications Provides the relevant background for state of the art and next gen systems Offers practical guidelines for system link engineering

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