

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 ($\frac{1}{2} \times \text{bandwidth}$) 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.

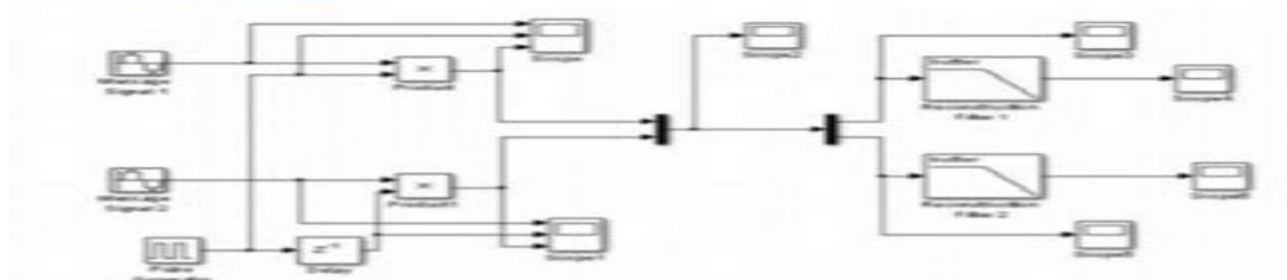


Fig. 1: Illustration of TDM MUX and TDM DEMUX

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

IM Harris



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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 **NBS Special Publication** ,1973 Electrical & Electronics Abstracts ,1997

Annotated Bibliography of the Literature on Resource Sharing Computer Networks Robert P. Blanc,1973

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Engineering Literature ,1971 **R & D Abstracts** Technology Reports Centre (Great Britain),1981 **INIS**

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