

A communication Model

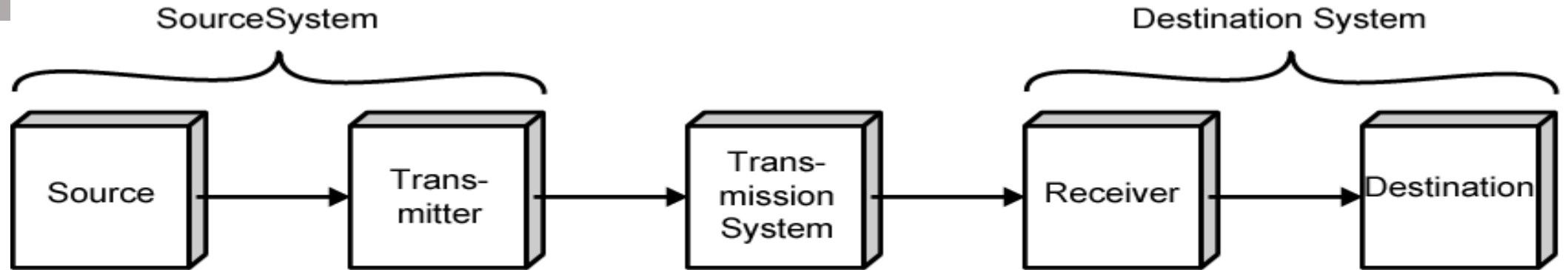
- **Data Communications** deals with the transmission of signals in a reliable and effective manner. Topics covered include signal transmission, transmission media, signal encoding, interfacing, data link control, and multiplexing.
- **Networking** deals with the technology and architecture of the communication networks used to interconnect communicating devices (entities). Topics include LANs, WANs.

- **Data Communications** between two devices
- **Networks** provide networking services between two entities
- The communications between two end-points uses **Protocol**

A Communications Model

- Source
 - Generates (binary) data to be transmitted
- Transmitter
 - Converts data into transmittable electromagnetic signals
- Transmission system
 - This can be a single transmission line or a complex network
- Receiver
 - Converts received signal into data
- Destination
 - Takes incoming data

Simplified Communications Model - Diagram



(a) General block diagram



(b) Example

