

Introduction to Signals and Systems

Chapter 1

Signals and Systems Defined

- A **signal** is any physical phenomenon which conveys information
- Systems** respond to **signals** and produce new **signals**
- Excitation signals** are applied at **system inputs** and **response signals** are produced at **system outputs**

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A Communication System as a System Example

- A **communication system** has an **information signal** plus **noise signals**
- This is an example of a **system** that consists of an interconnection of smaller **systems**

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Signal Types

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Conversions Between Signal Types

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Message Encoded in ASCII

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