



Karen West <karenwest15@gmail.com>

Welcome

A System View of Communications: From Signals to Packets (Part 2) <ELEC1200.2x-no-reply@courseupdates.edx.org>
To: KarenWest15@gmail.com

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Course Update

Course Update from:

A System View of Communications: From Signals to Packets (Part 2)

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Welcome

Dear students,

Welcome to **A System View of Communications: From Signals to Packets (Part 2)**.

We are excited to have you in this course! This second in a series of three parts starts with a discussion of source coding, also known as compression. There are two types of compression: lossless and lossy. We start with a discussion of lossless compression and the idea of entropy. Before discussing the idea of lossy compression, we need to introduce the idea of the frequency domain analysis of signals. This enables us to understand the key steps in the MP3 encoding used for audio files. The frequency domain also allows us to get a better understanding of a linear time invariant system by interpreting its operation as a filtering process. In the final section of this part, we discuss how we can share a wireless channel by moving different signals in and out of different radio frequency ranges, via processes called modulation and demodulation. We discuss schemes for digital data transmission and how to make most effective use of the communication channel.

Once again, we have prepared substantive and engaging materials to boost your learning experience. To enable us to enhance your learning experience further, please let us know more about you and your needs by filling out the [pre-course survey](#).

In preparation for the first week's lesson, you may want to look at the [course outline](#), the [grading scheme](#) and information [about the instructors](#). To access all of that information, click on the relevant buttons on top of the course site.

We are looking forward to a fun learning adventure!

Warm regards,
Bert and Song

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