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## 6.450, or Principles of Digital Communications

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Fall 2002 Introduction to digital communication : 2:

Coding for discrete sources : 3: Quantization : 4:

Source and channel waveforms (PDF - 1.1 MB) 5:

Vector spaces and signal space : 6: Channels,

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and noise (PDF - 1.0 MB) 8: Detection, coding, and

decoding (PDF - 1.1 MB) 9 Lecture Notes | Principles of

Digital Communications I ... This course is a graduate

level introduction to the basic principles of digital

communication systems. A digital communication

system is one that transmits a source (voice, video,

data, etc.) from one point to another, by first

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Principles of Digital Communication II -

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Cambridge Press 2008 by ROBERT G. GALLAGER A

complete set of solutions is available from Cambridge Press for instructors teaching a class using this text.

This is a subset of solutions that I feel would be valuable for those studying the subject on their own.

Chapter 2 Exercise 2.2: SELECTED SOLUTIONS TO

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covered include: digital communications at the block diagram level, data compression, Lempel-Ziv

algorithm, scalar and vector quantization, sampling

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