

Information Theory And Reliable Communication

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Information Theory and Reliable Communication Chapter 1. COMMUNICATION SYSTEMS AND INFORMATION THEORY. 1.1 Introduction. Communication theory deals primarily with systems for

transmitting information or data from one point to another. A rather general block diagram for visualizing the behavior of such systems is given in Figure 1.1.1.

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G. Gallager, Information Theory and Reliable Communication – Robert M. Fano. Transmission of Information: A Statistical Theory of Communications. – Andrew J. Viterbi, Jim K. Omura.

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Information theory - Wikipedia

Aside from the intense mathematical rigour devoted by Gallager to this textbook, which blows away Cover and Thomas' "Elements of Information Theory" the primary difference between the two books is that the focus here is on channel code design, whereas Cover and Thomas focus more on source coding because that is their field of expertise.

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R. Gallager, "A Simple Derivation of the Coding Theorem and Some Applications," IEEE Trans. on Inform. Theory, Jan. 1965 In addition some concepts found in R. Gallager, Information Theory and Reliable Communication, Wiley 1968 Mikael Skoglund, Information Theory 1/29

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