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Solution: Conditional mutual information vs. unconditional mutual information. (a) The last corollary to Theorem 2.8.1 in the text states that if $X \rightarrow Y \rightarrow Z$ that is, if $p(x,y | z) = p(x | z)p(y | z)$ then, $I(X;Y) \geq I(X;Y | Z)$.

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Solution: Entropy of functions of a random variable. (a) $H(X;g(X)) = H(X)+H(g(X)|X)$ by the chain rule for entropies. (b) $H(g(X)|X) = 0$ since for any particular value of X , $g(X)$ is fixed, and hence

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Here we have the

solutions to all the

problems in the second

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First a word about how

the problems and

solutions were

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Preface The problems in the book, "Elements of Information Theory, Second Edition", were chosen from the problems used during the course at Stanford. Most of the solutions here were prepared by the graders and instructors of the course. We would particularly like to

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thank Prof. John Gill,
David Evans, Jim
Roche, Laura Ekroot
and Young Han Kim for
their help in preparing
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R. Gallager,
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treated by information theory lay in the areas of data compression and transmission. The answers are quantities such as entropy and mutual information, which are functions of the probability distributions that underlie the process of communication.

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