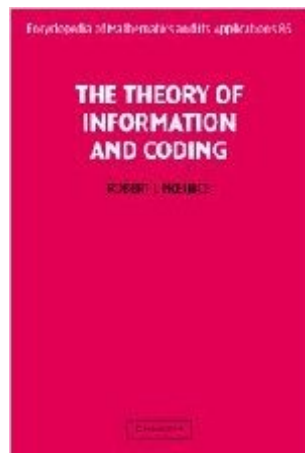


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The Theory Of Information And Coding (Encyclopedia Of Mathematics And Its Applications No. 86)



Synopsis

This revised edition of McEliece's classic is a self-contained introduction to all basic results in the theory of information and coding. This theory was developed to deal with the fundamental problem of communication, that of reproducing at one point, either exactly or approximately, a message selected at another point. There is a short and elementary overview introducing the reader to the concept of coding. Following the main results, the channel and source coding theorems is a study of specific coding schemes which can be used for channel and source coding. This volume can be used either for self-study, or for a graduate/undergraduate level course at university. It includes dozens of worked examples and several hundred problems for solution.

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An excellent update of a classic text. This book, in just this one volume, gives you an incisive description of information theory. It assumes that you have no prior experience in this field. It develops the theory from the first principles of Claude Shannon, and rapidly shows you his major results. If you are a student, a valuable and essential part of the book are the several hundred questions. You really need to tackle as many of these as you can. By doing so, you can substantially deepen your understanding of the subject. The problem sets are probably also another reason why this book has become a common text in Information Theory classes. The first edition of this book (and now hopefully this edition!) has been compared by some to Richard Feynman's Lectures on Physics, as a standard and authoritative book in its field.

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