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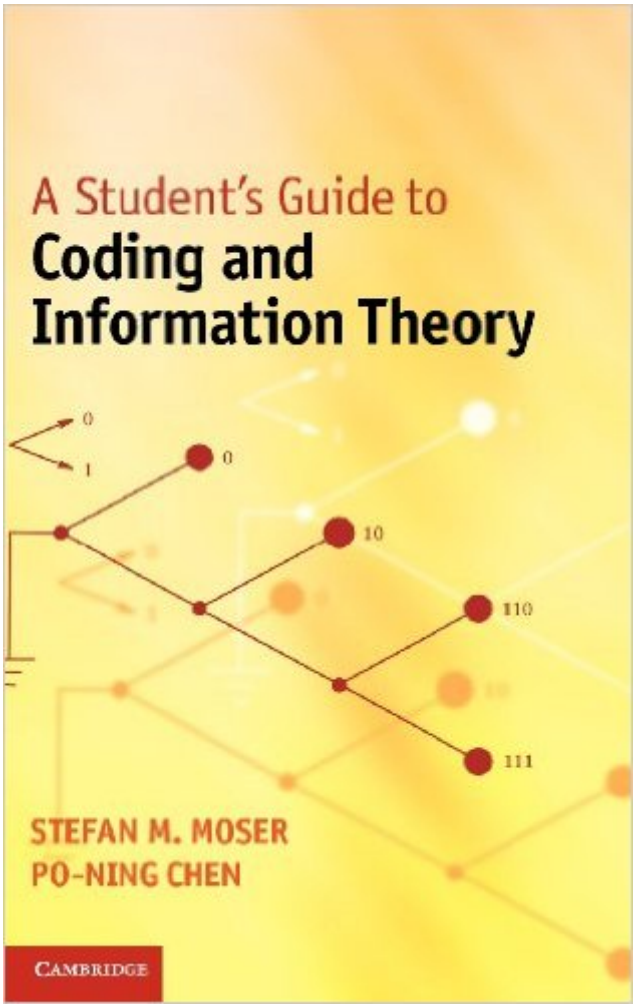
A Student's Guide To Coding And Information Theory



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Synopsis

This easy-to-read guide provides a concise introduction to the engineering background of modern communication systems, from mobile phones to data compression and storage. Background mathematics and specific engineering techniques are kept to a minimum so that only a basic knowledge of high-school mathematics is needed to understand the material covered. The authors begin with many practical applications in coding, including the repetition code, the Hamming code and the Huffman code. They then explain the corresponding information theory, from entropy and mutual information to channel capacity and the information transmission theorem. Finally, they provide insights into the connections between coding theory and other fields. Many worked examples are given throughout the book, using practical applications to illustrate theoretical definitions. Exercises are also included, enabling readers to double-check what they have learned and gain glimpses into more advanced topics, making this perfect for anyone who needs a quick introduction to the subject.

Book Information

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Customer Reviews

Not always as clear as it might be, but it rewards close reading. The linkage of coding theory and information is rarely made as explicit in the literature of computer science or mathematics as it is here, and the results are intriguing and provocative. Although this book does not often explicitly extend this discussion to include thinking about information processing and coding in biological systems, the implications are there to be found and well worth considering.

This is an intro book and is very clearly written. There are many good information theory books out there but this one is really clear and it makes sure most people really understand everything written, although at a relatively basic level.

This book saved my hide. I was having difficulty understanding on topics in my Information Theory class and this book clarified the ideas. The author is clear and easily understood. I got an A in my course and this book helped.

I went directly to chapter 5 and it made information entropy suddenly make sense.

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