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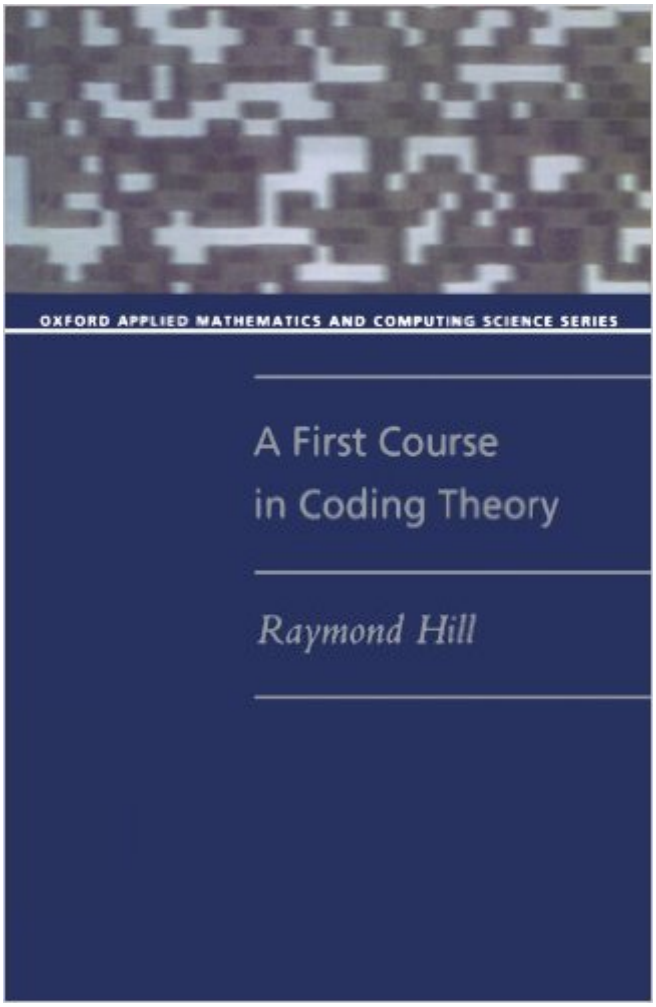
A First Course In Coding Theory (Oxford Applied Mathematics And Computing Science Series)



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Synopsis

Algebraic coding theory is a new and rapidly developing subject, popular for its many practical applications and for its fascinatingly rich mathematical structure. This book provides an elementary yet rigorous introduction to the theory of error-correcting codes. Based on courses given by the author over several years to advanced undergraduates and first-year graduated students, this guide includes a large number of exercises, all with solutions, making the book highly suitable for individual study.

Book Information

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Customer Reviews

The greatest quality of this book is that all the author expects the reader to have is a basic mathematics background (a Discrete Structures background of basic Set Theory). It contains consise explanations and straightforward proofs to all the essential theorems of the subject,but, fortunately, is NOT too elementary that it loses its true mathematical appeal. To top it all, it is chock-full of excellent applied problems in communications, image transmission, and even a party trick here or there (oh yes, friends WILL be impressed when you can error-correct an ISBN!). In short, I think this book serves as a wonderful textbook into introductory Coding theory. And as for the subject of Coding Theory in general, maybe to spark a bit more interest in some potential customers, a thorough study of the theory will bring together all types of Mathematics (from algebra,

calculus, number theory, set theory, finite geometry, and linear algebra). All will be revealed!

Prompt delivery, book was in great shape. I'd buy my next textbook this way!

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