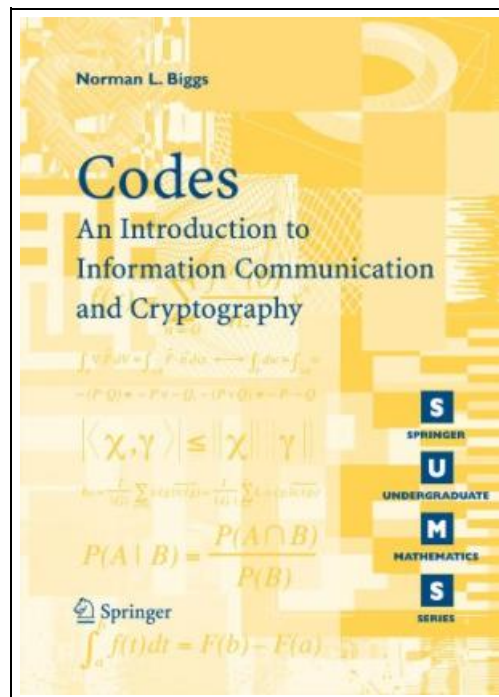


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Springer London Ltd, United Kingdom, 2008. Paperback. Book Condition: New. 2008 ed.. 234 x 178 mm. Language: English . Brand New Book. Many people do not realise that mathematics provides the foundation for the devices we use to handle information in the modern world. Most of those who do know probably think that the parts of mathematics involved are quite classical, such as Fourier analysis and differential equations. In fact, a great deal of the mathematical background is part of what used to be called pure mathematics, indicating that it was created in order to deal with problems that originated within mathematics itself. It has taken many years for mathematicians to come to terms with this situation, and some of them are still not entirely happy about it. This book is an integrated introduction to Coding. By this I mean replacing symbolic information, such as a sequence of bits or a message written in a natural language, by another message using (possibly) different symbols. There are three main reasons for doing this: Economy (data compression), Reliability (correction of errors), and Security (cryptography). I have tried to cover each of these three areas in sufficient depth so that the reader can grasp the basic problems and go on to more advanced study. The mathematical theory is introduced in a way that enables the basic problems to be stated carefully, but without unnecessary abstraction. The prerequisites (sets and functions, matrices, finite probability) should be familiar to anyone who has taken a standard course in mathematical methods or discrete mathematics. A course in elementary abstract algebra and/or number theory would be helpful, but the book contains the essential facts, and readers without this background should be able to understand what is going on. vi There are a few places where reference is made to computer algebra systems.



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