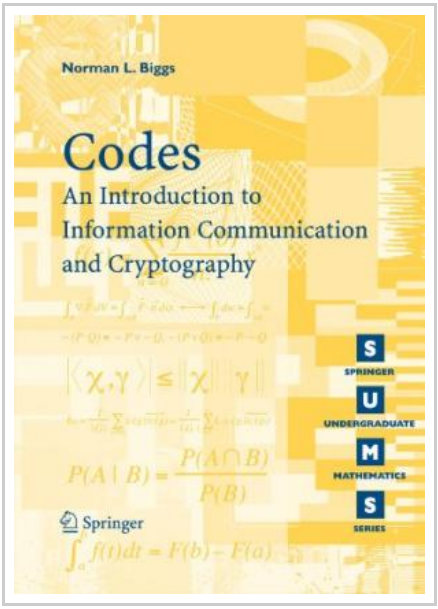

Codes: An Introduction to Information Communication and Cryptography (Paperback)

By Professor of Mathematics London School of Economics Norman L Biggs

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 involvedare quite cl- sical , such as Fourier analysis and di?erential equations. In fact, a great deal of the mathematical background is part of what used to be called pure ma- ematics, indicating that it was created in order to deal with problems that originated within mathematics itself. It has taken many years for mathema- cians to come to terms with this situation, and some of them are still not entirely happy about it. Thisbookisanintegratedintroductionto Coding.Bythis Imeanreplacing symbolic information, such as a sequence of bits or a message written in a naturallanguage,byanother messageusing (possibly) di?erentsymbols.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 su?cient depth so that the reader can grasp the basic problems and go on to more advanced study. The mathematical...

Reviews

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