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## **Protecting Information: From Classical Error Correction to**

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Protecting Information: From Classical Error Correction to Quantum Cryptography. Susan Loepf, William K. Wootters. For many everyday transmissions, it is essential to protect digital information from noise or eavesdropping. This undergraduate introduction to error correction and cryptography is unique in devoting several chapters to quantum cryptography and quantum computing, thus providing a context in which ideas from mathematics and physics meet.

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Feistel Ciphers. Photon Polarization. Quantum Factoring. Syndrome Decoding. Quantum Teleportation. All sound like things you might find on an episode of Star Trek, but are actually topics that can be found in *Protecting Information*, a new book by Susan Loepf and William Wootters, that covers these topics and many others in the fields of cryptography and coding theory.

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Protecting Information: From Classical Error Correction to Quantum Cryptography (English Edition) was one of the most wanted books on 2020. It contains pages. This book was very surprised because of its top rating and got about best user reviews.

## **Books Protecting Information: From Classical Error ...**

covering the theory of information and entropy, the reader following this book would have no problems gaining a good overview of quantum information theory and would be ready to read more advanced texts on these topics, some of which are

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listed in

## **Review of the book Protecting Information: From Classical ...**

First, there are the two reasons for protecting information: against eavesdropping and against noise. Second, there are two arenas in which one can work: the classical and the quantum. Most of the chapters lie primarily on one side or the other of each of these oppositions, but the book is constructed with the intention that these different facets complement and reinforce each other.

## **Protecting Information From Classical Error Correction to ...**

For binary data, represented by 0s and 1s, repetition protects information: a logical bit “0” is represented in three physical bits as 000, while “1” is represented as 111. Suppose during data

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transmission of "0", the last physical bit was accidentally flipped, so that the received message is 001.

## **Error correcting the things that go wrong at the quantum**

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By covering such topics as Shor's quantum factoring algorithm, this text informs the reader about current thinking in quantum information theory and encourages an appreciation of the connections between mathematics and science. Of particular interest are the potential impacts of quantum physics: (i) a quantum computer, if built, could crack our ...

## **Protecting Information by Susan Loepp**

Protecting information : from classical error correction to quantum cryptography. [Susan Loepp; William Kent Wootters] -- In the transmission of information storage, preventing noise and/or eavesdropping is essential.

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By covering such topics as Shor's quantum factoring algorithm, this text informs the reader about current thinking in quantum information theory and encourages an appreciation of the connections between mathematics and science. Of particular interest are the potential impacts of quantum physics: (i) a quantum computer, if built, could crack our ...

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With Susan Loebb, he is the co-author of the book *Protecting Information: From Classical Error Correction to Quantum Cryptography* (Cambridge University Press, 2006).

## **William Wootters - Wikipedia**

With William Wootters, she is the co-author of the book *Protecting Information: From Classical Error Correction to Quantum Cryptography* (Cambridge University Press, 2006). The book covers topics in quantum cryptography and quantum computing and the potential impacts of quantum physics.

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