

Chapitre 5 : Fiabilisation de la transmission

5.1 Introduction

Ce chapitre sera consacré à l'étude détaillée de la couche liaison de données, avec un focus sur les différents mécanismes et techniques de détection des erreurs et celles utilisées pour leur correction. Par ailleurs, les méthodes de transmission propres à cette couche seront également présentées, en mettant l'accent sur le protocole HDLC.

5.2 Mécanismes de détection et de correction d'erreurs

Les phénomènes perturbateurs peuvent entraîner des erreurs de transmission en inversant les bits de l'information transmise. Une liaison est caractérisée par son taux d'erreurs T_e appelé aussi **BER (Bit Error Rate)** donné comme suit :

$$T_e = \frac{\text{nombre bits erronés}}{\text{nombre bits total}}$$

Exemple

Info :transmise : 1110001100111100

Info. reçue : 1110101100101100



$$T_e = 2/16 = 12.5\%$$

T_e varie pratiquement entre 10^{-4} et 10^{-6} . Au fait, plusieurs mécanismes sont utilisés pour détecter et éventuellement corriger les erreurs de transmission à savoir la détection par echo, par répétition, par code de parité, CRC et Hamming

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Table of Contents Raseaux Informatiques 2ame Adition

1. Understanding the eBook Raseaux Informatiques 2ame Adition
 - The Rise of Digital Reading Raseaux Informatiques 2ame Adition
 - Advantages of eBooks Over Traditional Books
2. Identifying Raseaux Informatiques 2ame Adition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Raseaux Informatiques 2ame Adition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Raseaux Informatiques 2ame Adition
 - Personalized Recommendations
 - Raseaux Informatiques 2ame Adition User Reviews and Ratings
 - Raseaux Informatiques 2ame Adition and Bestseller Lists
5. Accessing Raseaux Informatiques 2ame Adition Free and Paid eBooks
 - Raseaux Informatiques 2ame Adition Public Domain eBooks
 - Raseaux Informatiques 2ame Adition eBook Subscription Services
 - Raseaux Informatiques 2ame Adition Budget-Friendly Options
6. Navigating Raseaux Informatiques 2ame Adition eBook Formats

- ePub, PDF, MOBI, and More
- Raseaux Informatiques 2ame Addition Compatibility with Devices
- Raseaux Informatiques 2ame Addition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Raseaux Informatiques 2ame Addition
 - Highlighting and Note-Taking Raseaux Informatiques 2ame Addition
 - Interactive Elements Raseaux Informatiques 2ame Addition
- 8. Staying Engaged with Raseaux Informatiques 2ame Addition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Raseaux Informatiques 2ame Addition
- 9. Balancing eBooks and Physical Books Raseaux Informatiques 2ame Addition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Raseaux Informatiques 2ame Addition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Raseaux Informatiques 2ame Addition
 - Setting Reading Goals Raseaux Informatiques 2ame Addition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Raseaux Informatiques 2ame Addition
 - Fact-Checking eBook Content of Raseaux Informatiques 2ame Addition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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