

Chapter 1

Digital Transmission

Latihan 1.1 Contoh soal 1

Solusi *Contoh solusi*

Latihan 1.2 Contoh soal

Solusi *Contoh solusi*

Latihan 1.3 Contoh soal

Solusi *Contoh solusi*

Latihan 1.4 Contoh soal

Solusi *Contoh solusi*

Latihan 1.5 Contoh soal 5

Solusi *Contoh solusi*

Latihan 1.6 Contoh soal

Solusi *Contoh solusi*

Latihan 1.7 Contoh soal

Solusi *Contoh solusi*

Latihan 1.8 Contoh soal

Solusi *Contoh solusi*

Latihan 1.9 Contoh soal 9

Solusi *Contoh solusi*

Latihan 1.10 Contoh soal

Solusi *Contoh solusi*

Latihan 1.11 Contoh soal

Solusi *Contoh solusi*

Latihan 1.12 Contoh soal

Solusi *Contoh solusi*

Latihan 1.13 Contoh soal 13

Solusi *Contoh solusi*

Latihan 1.14 Contoh soal

Solusi *Contoh solusi*

Latihan 1.15 Contoh soal

Solusi *Contoh solusi*

Latihan 1.16 Contoh soal

Solusi *Contoh solusi*

Latihan 1.17 Contoh soal 17

Solusi *Contoh solusi*

Latihan 1.18 Contoh soal

Solusi *Contoh solusi*

Latihan 1.19 Contoh soal

Solusi *Contoh solusi*

Latihan 1.20 Contoh soal

Solusi *Contoh solusi*

Chapter 2

Analog Transmission

Latihan 2.1 Calculate the baud rate for the given bit rate and type of modulation.

- a. 2000 bps, FSK
- b. 4000 bps, ASK

Solusi We use the formula $S = (1/r) \times N$, but first we need to calculate the value of r for each case.

a. $r = \log_2 2 = 1 \rightarrow S = (1/1) \times (2000 \text{ bps}) = 2000 \text{ baud}$

b.

Latihan 2.2 Contoh soal

Solusi Contoh solusi

Latihan 2.3 Contoh soal

Solusi Contoh solusi

Latihan 2.4 Contoh soal

Solusi Contoh solusi

Latihan 2.5 Contoh soal 5

Solusi Contoh solusi

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Latihan 2.8 Contoh soal

Solusi *Contoh solusi*

Latihan 2.9 Contoh soal 9

Solusi *Contoh solusi*

Latihan 2.10 Contoh soal

Solusi *Contoh solusi*

Latihan 2.11 Contoh soal

Solusi *Contoh solusi*

Latihan 2.12 Contoh soal

Solusi *Contoh solusi*

Chapter 3

Bandwidth Utilization: Multiplexing and Spreading

Latihan 3.1 Contoh soal 1

Solusi *Contoh solusi*

Latihan 3.2 Contoh soal

Solusi *Contoh solusi*

Latihan 3.3 Contoh soal

Solusi *Contoh solusi*

Latihan 3.4 Contoh soal

Solusi *Contoh solusi*

Latihan 3.5 Contoh soal 5

Solusi *Contoh solusi*

Latihan 3.6 Contoh soal

Solusi *Contoh solusi*

Latihan 3.7 Contoh soal

Solusi *Contoh solusi*

Latihan 3.8 Contoh soal

Solusi *Contoh solusi*

Latihan 3.9 Contoh soal 9

Solusi *Contoh solusi*

Latihan 3.10 Contoh soal

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Solusi *Contoh solusi*

Latihan 3.11 Contoh soal

Solusi *Contoh solusi*

Latihan 3.12 Contoh soal 12

Solusi *Contoh solusi*

Latihan 3.13 Contoh soal

Solusi *Contoh solusi*

Latihan 3.14 Contoh soal

Solusi *Contoh solusi*

Latihan 3.15 Contoh soal 15

Solusi *Contoh solusi*

Latihan 3.16 Contoh soal

Solusi *Contoh solusi*

Latihan 3.17 Contoh soal

Solusi *Contoh solusi*

Latihan 3.18 Contoh soal

Solusi *Contoh solusi*