Problems

In a communication networks, we employ the STS-48 to transmit signals. What is the maximum allowable clock speed difference between any two equipments in the communication networks?

Solution

- An STS-48 contains 48 STS-1.
- Each STS-1 contains one extra byte (8 bits).
- The bit rate of STS-48 is 2488.32 Mbps.

$$\frac{8 \times 48}{2488.32 \times 10^6} = \pm 1.5 \times 10^{-7}$$