

自由空間光通信&中継技術

Free-Space Optical Communications & Relaying Techniques

自由空間光通信 Free-Space Optical

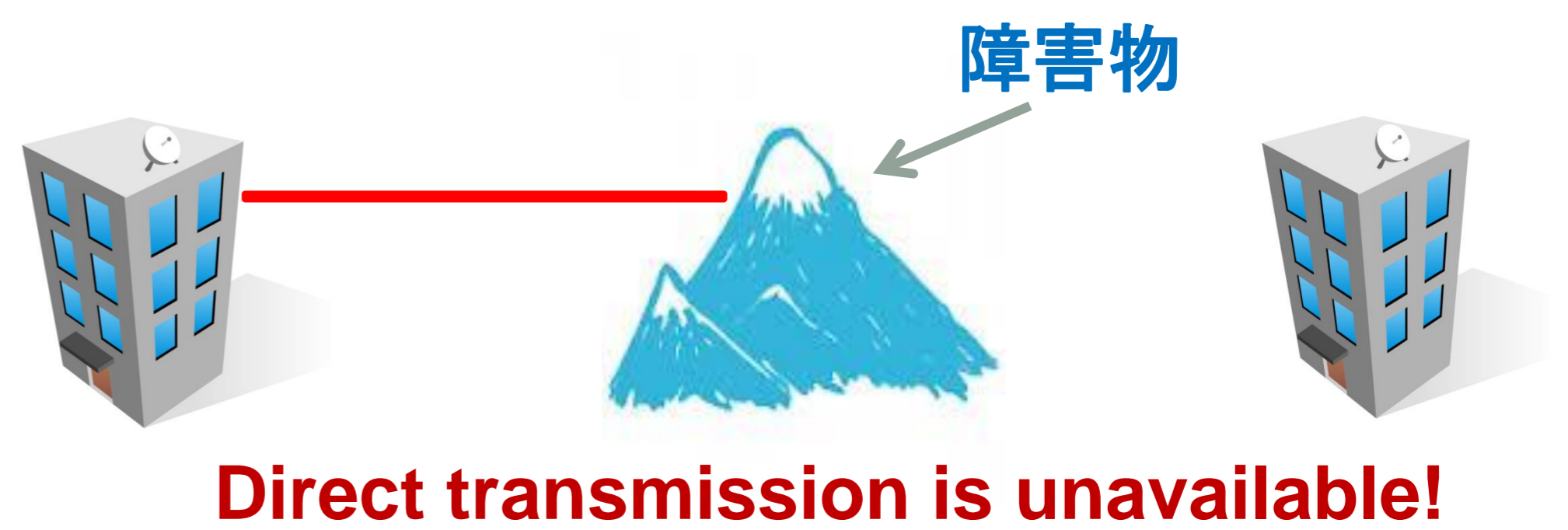
❖ Using light waves to transmit information through free-space medium (air, vacuum...)

❖ 応用

- LAN-to-LAN connection
- Inter-satellite communication
- Last mile access



❖ 問題



中継技術 Relaying Techniques



- ❖ 中継戦略: 中継ノードで光信号のプロセス方法です。
- The signal is decoded before retransmitted to next node: Decode-and-forward (DF)
 - The signal is just amplified before retransmitted to next node: Amplify-and-Forward (AF)

❖ 中継配置

➢ Serial relaying



➢ Parallel relaying

