

Computer Science Illuminated

Nell Dale *and* John Lewis *Fourth Edition*

Chapter 15 Networks

Chapter Goals

- Describe the core issues related to **computer networks**
- List various **types** of networks and their **characteristics**
- Explain various topologies of **local-area networks**
- Explain why network technologies are best implemented as **open systems**

Chapter Goals

- Compare and contrast various technologies for **home Internet connections**
- Explain **packet** switching
- Describe the basic roles of various **network protocols**
- Explain the role of a **firewall**
- Compare and contrast network **hostnames** and **IP addresses**