Clocks:

Definition of causal ordering, be able to describe an order of events consistent with a flow diagram
Why global state is hard to determine, multiple consistent global states in terms of order of events in a flow diagram
Theorem 18.1
Clock synchronization problems:
- Clock drift
- Variable delay
- Faulty servers
- Malicious servers

Dolev requirements for correct time
- Monotone increasing

1) Logical clocks stay “close together”
2) Logical clocks stay within a linear envelope of the duration timers.

Simulation

Definition
Know the significance
Given a relation between states of two automata, be able to show that it is or is not a simulation relation

Spanning Tree

Breadth-first search
Min-weight spanning tree
- Synchronous
- Adaptations for Asynchronous

Cisco Spanning Tree

MANET

Motivations and limitations
Hidden terminal and exposed terminal problems
Address allocation and routing problems (differences from wireline)
Important algorithms:
- MPR
- JAVeLEN

Modeling a wireless channel
Modeling node movement