1 Routing in circuit switched networks

Consider the network of Fig. 1 where the only traffic is between nodes A, E.

- 1. Define the state space.
- 2. Write down the general term of transition matrix. Assume that the policy is the standard fan rule for hierarchical networks.
- 3. Assume that SOC control is used, and that the only links present are those indicated on the figure. Construct the augmented route tree corresponding to the full fan rule for a pair of nodes A and E.
- 4. Construct the influence graph corresponding to Problem 1.3.

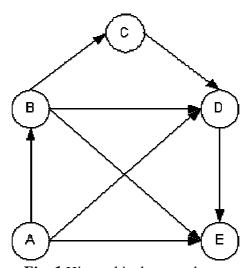


Fig. 1 Hierarchical network