

EE303 — Energy Systems and Power Electronics

Lecture 21. Power flow analysis

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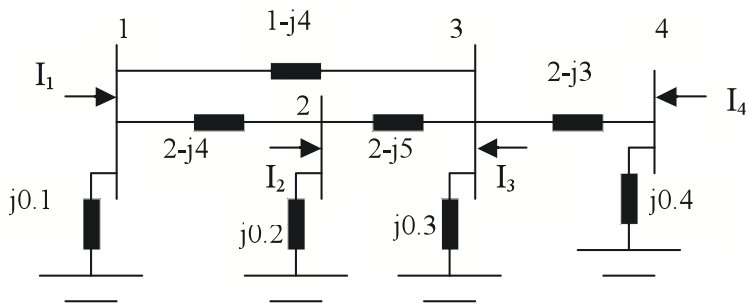
Today's objectives

- DESCRIBE** what the **power flow** problem is
- EXPLAIN** how to form the **admittance matrix** of a network
- DERIVE** the power flow equations

Example T7.1, p. 85

Example

Find the admittance matrix of the following network:



Reading material

The material we covered today corresponds to:

- Module T7, pp. 79–111 of the class notes
- Chapter 14.1–14.2, pp. 419–427 of textbook