**Exercises on High Voltage Engineering (June 5, 2025):**

**Exercise 10-1:** What are the main categories of power switchgears? What are their main application situations?

**Exercise 10-2:** After receiving the trip signal, can the circuit breaker be disconnected at the same instant? What are the benefits of the reclosing function of circuit breaker?

**Exercise 10-3:** What are the main factors that determine the overvoltage amplitude of energizing an unloaded line? How to suppress this type of overvoltage?

**Exercise 10-5:** Which factor determines the insulation level of OHL in polluted areas or the areas where switching overvoltage is limited to low values?

**Exercise 10-6:** What is the meaning of "insulation level" for electrical equipment?

**Supplementary Exercise:** What is the basic principle of substation insulation cooperation in China? What is the basic principle of transmission line insulation coordination in China? Why do substations and lines follow different insulation coordination principles?