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Power engineering is a challenging field that requires extensive knowledge and experience. To become a licensed 2nd-class power engineer, candidates must pass a rigorous exam. Sample questions PDFs can be invaluable resources for studying and preparing for the exam.

Section 1: Thermodynamics

- What is the first law of thermodynamics?
- What is the difference between enthalpy and entropy?
- What is the Carnot efficiency?

Section 2: Fluid Mechanics

- What is the Bernoulli equation?
- What is the relationship between pressure, velocity, and head?
- What is the Reynolds number?

Section 3: Heat Transfer

- What are the three modes of heat transfer?
- What is the Fourier law of heat conduction?
- What is the Stefan-Boltzmann law of radiation?

Section 4: Power Plant Systems

- What are the main components of a steam turbine?
- What is the purpose of a condenser in a power plant?
- How is electricity generated in a power plant?

Section 5: Electrical Fundamentals

- What is the difference between voltage, current, and resistance?
- What is Ohm's law?
- What is the power factor?

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