# Design and control of a thermal stabilization system for a small-scale egg incubator

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**Abstract:** This topic focuses on the design and control of a thermal stabilization system for small-scale egg incubators, aiming to ensure the quality and quantity of successfully hatched eggs. Through a combination of theoretical research and experimentation, the objective is to develop an effective solution to maintain an optimal temperature environment throughout the incubation process. Temperature control methods are applied to achieve the necessary stability and minimize errors. The project is expected to bring significant practical value to the poultry farming industry, contributing to improved production efficiency and enhanced hatching quality.

**Keywords:** System design, temperature control, egg incubator, thermal stability, poultry farming