

Design of a thermal stabilization system for a household egg incubator

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Abstract: This topic focuses on designing and implementing a thermal stabilization system for household-scale egg incubators, aiming to meet the needs of small-scale poultry farmers. The objective is to create an automated solution to maintain stable temperature during the incubation process, thereby improving the hatching success rate and reducing operational costs. The research method combines theory with experimentation, including analyzing factors affecting the incubation process, designing temperature control algorithms, and deploying a trial system in an actual household. The expected results will provide a useful solution for poultry farmers and contribute to the field of biotechnology.

Keywords: thermal stability, egg incubator, household, automation, bioengineering