Department : **Mechanical**

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Guided By

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Project Title

DESIGN AND DEVELOPMENT OF A TWO STAGE THERMOELECTRIC COOLING SYSTEMS (TEC'S)

Abstract:

This Article outlines the implementation of Battery driven cooling cum heating system powered using thermoelectric plates. Different from conventional cooling systems, thermoelectric cooling based on the Peltier effect, does not require the conventional components. Moreover, it does not require working fluids or any moving parts, which is friendly to the environment and leads to an increase in reliability. It uses electrons rather than cooling as a heat carrier. Thermoelectric cooling system are solid state heat pumps used in applications where temperature stabilization, temperature cycling, or cooling below ambient are required. This article discusses the theory behind the thermoelectric cooler, along with the thermal and electrical parameters involved.

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