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Thermal design of double helium gas gap conduction test facility

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Abstract: In order to obtain the heat transfer characteristics of the helium gap in the conditions of different thickness and power line in the high temperature range, on the basis of the previous research, the original test device was improved, through the theoretical design of double helium clearance, the test device can perform experiments under high temperature conditions. Compared with the experimental results, the theoretical design values are in good agreement with the experimental results. According to the design results of the test device, the helium gap test can be carried out in a high temperature range, and the test results can provide reference for the design of the material irradiation assembly.

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