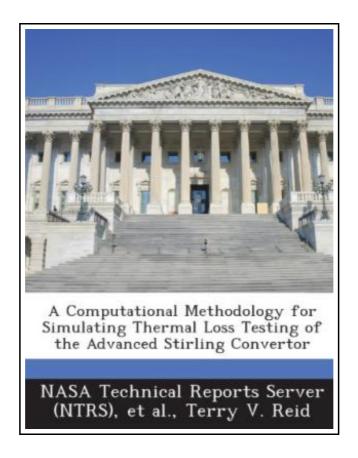
## A Computational Methodology for Simulating Thermal Loss Testing of the Advanced Stirling Convertor (Paperback)



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Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. Convertor and generator testing is carried out in tests designed to characterize convertor performance when subjected to environments intended to simulate launch and space conditions. The value of net heat input must be known in order to calculate convertor efficiency and to validate convertor performance. Specially designed test hardware was used to verify and validate a two step methodology for the prediction of net heat input. This lessons learned from these simulations have been applied to previous convertor simulations. As heat is supplied to the convertors, electric power is produced and measured. Net heat input to the convertor is one parameter that will contribute to the calculation of efficiency. This parameter is not measured directly. Insulation Loss. Determine the current status of the thermal conductivity of the micro-porous insulation. - Match heat source and hot end temperatures. - Match temperature difference across Kaowool insulation.

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