



Mathematical Modelling Of Stirling Engines

Michael Brown



Mathematical Modelling Of Stirling Engines:

Numerical Modelling and Design Optimisation of Stirling Engines for Power Production Kwanchai

Kraitong,2012 This research is in the area of Thermal Energy Conversion more specifically in the conversion of solar thermal energy This form of renewable energy can be utilised for production of power by using thermo mechanical conversion systems Stirling engines The advantage of such the systems is in their capability to work on low and high temperature differences which is created by the concentrated solar radiation To design and build efficient high performance engines in a feasible period of time it is necessary to develop advanced mathematical models based on thermodynamic analysis which accurately describe heat and mass transfer processes taking place inside machines The aim of this work was to develop such models evaluate their accuracy by calibrating them against published and available experimental data and against more advanced three dimensional Computational Fluid Dynamics models The refined mathematical models then were coupled to Genetic Algorithm optimisation codes to find a rational set of engine s design parameters which would ensure the high performance of machines The validation of the developed Stirling engine models demonstrated that there was a good agreement between numerical results and published experimental data The new set of design parameters of the engine obtained from the optimisation procedure provides further enhancement of the engine performance The mathematical modelling and design approaches developed in this study with the use of optimization procedures can be successfully applied in practice for creation of more efficient and advanced Stirling engines for power production

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