



The Regenerator and the Stirling Engine

Allan J. Organ

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The Regenerator and the Stirling Engine examines the basic scientific and engineering principles of the Regenerator and the Stirling engine. Drawing upon his own research and collaboration with engine developers, Allan J Organ offers solutions to many of the problems which have prevented these engines operating at the levels of efficiency of which they are theoretically capable. *The Regenerator and the Stirling Engine* offers practising engineers and designers specific guidelines for building in optimum thermodynamic performance at the design stage.

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- Bridging the gap
- The Stirling cycle
- Heat transfer – and the price
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- In support of similarity
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- Connectivity and thermal shorting
- Real particle trajectories – natural co-ordinates
- The Stirling regenerator
- The Ritz rotary regenerator
- Compressibility effects
- Regenerator flow impedance
- Complex admittance – experimental corroboration
- Steady-flow Cf–Nre correlations inferred from linear-wave analysis
- Optimization Part I: without the computer
- Optimization Part II: cyclic steady state
- Elements of combustion
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