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Re: Eleven Stirling Engine Projects You Can Build Post by jimlarsen » Sun Jan 29, 2012 9:53 pm I think we agree on the principles and are simply offering our own interpretation of the vocabulary used in the sales pitch on the back cover.

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including five new groundbreaking designs by Jim Larsen. Now you can build simple pop can Stirling engines that look sharp and run incredibly well. The air cooled pop can engines will run for hours over a simple candle flame. Unlike most pop can engines, these don't need ice for cooling, so there is no mess to clean up and they can be run almost anywhere. And the Quick and Easy Stirling Engine will have you running your first Stirling engine in just a few hours. Jim Larsen's original designs made for this collection include: Single Chamber Pop Can Stirling Engine Dual Chamber Pop Can Stirling Engine Walking Beam Pop Can Stirling Engine Horizontal Pop Can Stirling Engine Quick and Easy Stirling Engine Kit builders will enjoy the detailed reviews of 4 commercially available kits. These kits are reviewed and tested for ease of assembly and

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performance. Building a Stirling engine kit can be a rewarding and satisfying experience, and you want to pick the kit that is right for you. You will discover what it takes to assemble and run these four engines: Thames and Kosmos Stirling Engine Car and Experiment Kit Think Geek Stirling Engine Kit by Inpro Solar MM5 Coffee Cup Stirling Engine Kit by the American Stirling Company Grizzly H8102 Stirling Engine Machined Kit The collection is rounded out by two classic designs that have pleased thousands of builders over the years. Many have enjoyed success building these classic designs: The SFA Stirling Engine Project (Stephen F. Austin University) Easy to Build Stirling Engine (Geocities/TheRecentPast)

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For Stirling engines to enjoy widespread application and acceptance, not only must the fundamental operation of such engines be widely understood, but the requisite analytic tools for the stimulation, design, evaluation and optimization of Stirling engine hardware must be readily available. The purpose of this design manual is to provide an introduction to Stirling cycle heat engines, to organize and identify the available Stirling engine literature, and to identify, organize, evaluate and, in so far as possible, compare non-proprietary Stirling engine design methodologies. This report was originally prepared for the National Aeronautics and Space Administration and the U. S. Department of Energy.

Hot air engines, often called Stirling engines, are among the

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most interesting and intriguing engines ever to be designed. They run on just about any fuel, from salad oil and hydrogen to solar and geothermal energy. They produce a rotary motion that can be used to power anything, from boats and buggies to fridges and fans. This book demonstrates how to design, build, and optimise Stirling engines. A broad selection of Roy's engines is described, giving a valuable insight into the many different types and a great deal of information relating to the home manufacture of these engines is included in the workshop section.

"Everyone needs power. Merrick Lockwood wants to use

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stirling engines to make that power. This book tells how Mr. Lockwood and his team, spent several years developing a simple, low tech, 5-HP Stirling engine in Dhaka, Bangladesh. It's the story of what worked then and what didn't along with Mr. lockwood's advice on which approaches would work well today. Lockwood's team built a Stirling engine that could burn agricultural garbage (in this case rice husks), however different burners could be designed today to burn previously wasted fuels. Lockwood shows how he used the simple ideas from historic Stirling engines along with his team's innovations to make his engines work. This book is filled with detailed descriptions of Mr. Lookwood's engines along with 34 pages of drawings that have survived. The book includes 184 photographs that show the tools, and methods of

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fabrication that Lookwood used."--Publisher's description.

This book provides invaluable and detailed information on building and optimizing Stirling engines. It's clear organization and the clarity of explanations and instructions have made the original Italian language version of this book a huge success with Stirling Engine enthusiasts. All 260 pages are printed entirely in color and contain a large number of photos and illustrations. 18 of the authors' miniature engines are presented, each with a technical description, geometric characteristics and performance data, photos, and engine technical data sheets. "Excel" files for the necessary calculations can be obtained free of charge by sending an e-mail to the author. These were created by the author for each

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type of engines, namely Stirling Alpha, Beta, range engines, Ringbom (vertical and horizontal cylinder) and Manson. These make it easy to both design an engine and optimize it; these calculations include all engine volumes, both functional and "dead". The text is organized so it can be understood by readers with varying degrees of knowledge: to facilitate reading, we have grouped the mathematical notes that are not essential for initial understanding at the end of the relevant chapters. The basic thermodynamic concepts are explained in these notes. The text concerns two engines types: the Stirling (including the Ringbom model, which is the best known), and the Manson, sometimes called the Ruppel engine. There are similarities between the two theoretical cycles used in each; in one respect, however, they differ

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considerably: the cycle used in a Stirling engine produces mechanical energy by utilizing a gas that is hermetically sealed inside; in fact, the seal is not perfect: some inevitable minor losses occur. In contrast, the Manson is not a closed cycle. The engine that uses the Stirling cycle can be made in three configurations, generally called Alfa, Beta, Gamma, in addition to a fourth, the Ringbom type, in which the displacer is "free", i.e. not connected to the crank mechanism. An important consideration for the Beta and Gamma types is the optimization of output power by establishing the correct ratio between the volume of the displacer and the volume of the working cylinder, factoring different temperatures. Efficiency is calculated and examined. The book begins with the Gamma type, which is the easiest to understand, then the

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remaining Alfa, Beta and Ringbom types, the latter a "free-piston" engine, and concludes with the Manson type.

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