

ELEVEN STIRLING ENGINE PROJECTS



YOU CAN BUILD

JIM R. LARSEN

11 Stirling Engine Projects You Can Build

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Committee on Science and
Technology. Subcommittee on
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11 Stirling Engine Projects You Can Build:

Eleven Stirling Engine Projects You Can Build Jim B. Larsen, Jim R. Larsen, 2012 Presents eleven projects demonstrating how to build simple fun and educational Stirling engines from available kits **Live Steam** ,1981 **Quick and Easy Stirling Engine** Jim R. Larsen, 2011-09 Do you know how to make a working engine from soda cans You do now The Quick and Easy Stirling Engine book will show you every detail you need to know There are no difficult secrets and no expensive parts to buy With two soda cans and a few other materials you can build a running engine in just a few hours The engine featured in this book was designed for use in educational settings Consulting with several educators this engine was designed so that it could be assembled with simple hand tools by most builders in about three hours The parts list is simple and affordable Simple hand tools are all that is required for assembling this engine Once assembled the engine will spin a flywheel when the bottom is heated and ice is placed on top This is a hot air engine design sometimes referred to as a Stirling Engine The engine makes motion by exercising a temperature differential The bottom half of the engine must be warmed to about 250 degrees F and the top of the engine must be cooled with cold water or ice When these conditions are present the engine will spin between 100 and 200 rpm The primary components of this engine are soda cans copper wire and an old CD The adhesive that is used for construction is readily available at hardware stores This engine is a fun project for students home builders hobbyists and anyone who wants to learn how to make their own hot air engine from soda cans *Around the World by Stirling Engine* Brent H. Van Arsdell, 2003 *1981 DOE Authorization* United States. Congress. House. Committee on Science and Technology. Subcommittee on Transportation, Aviation, and Communications, 1980 **Automotive Research and Development and Fuel Economy** United States. Congress. Senate. Committee on Commerce, 1973 **Automotive Research and Development and Fuel Economy, Hearings..., 93-1, on S.1055..., S.1903..., May 3, 4, 14; June 8, 14, and 21, 1973** United States. Congress. Senate. Committee on Commerce, 1973 **1982 DOE Authorization** United States. Congress. House. Committee on Science and Technology. Subcommittee on Transportation, Aviation, and Materials, 1981 **More Ltd Stirling Engines You Can Build Without a Machine Shop** Jim R. Larsen, 2016-02-26 Here is everything you need to know to build your own low temperature differential LTD Stirling engines without a machine shop These efficient hot air engines will run while sitting on a cup of hot water and can be fine tuned to run from the heat of a warm hand Four engine projects are included Each project includes a parts list detailed drawings and illustrated step by step assembly instructions The parts and materials needed for these projects are easily obtained from local hardware stores and model shops or ordered online Jim Larsen s innovative approach to Stirling engine design helps you achieve success while keeping costs low All of the engines described in this book are based on a conventional pancake style LTD Stirling engine format These projects introduce the use of Teflon tubing as an alternative to expensive ball bearings An entire chapter is devoted to the research and testing of various materials for hand crafted bearings The plans in this book are

detailed and complete This collection of engine designs is a stand alone companion to Jim Larsen s first book Three LTD
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