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About this book. About this book. This book reports on a novel approach for generating mechanical energy from different, external heat sources using the body of a typical piston engine with valves. By presenting simple yet effective numerical models, the authors show how this new approach, which combines existing internal combustion technology with a lubrication system, is able to offer an economic solution to the problem of mechanical energy generation in piston engines.

Externally Heated Valve Engine - A New Approach to Piston ...

Introduction. This book reports on a novel approach for generating mechanical energy from different, external heat sources using the body of a typical piston engine with valves. By presenting simple yet effective numerical models, the authors show how this new approach, which combines existing internal combustion technology with a lubrication system, is able to offer an economic solution to the problem of mechanical energy generation in piston engines.

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Externally Heated Valve Engine (Mar 30, 2018 edition ...

Abstract: A new concept of the externally heated valve (EHV) engine is presented. The principle of the engine operation is described. The principle of the engine operation is described. Heat delivered to the working medium (air) in the heater, or several heaters working commutatively, can come from a combustion chamber or other heat generators such as nuclear reactors or solar collectors.

Externally heated valve engine an-alternative to the ...

The experimental investigations of the first model of the externally heated valve engine carried out during 1998-9 are the subject of this paper. The working gas of the engine is air. A detailed description of the engine equipped with two consecutively working heaters is given. Two kinds of heaters were constructed and investigated.

Experimental investigations of the externally heated valve ...

A New Approach to Piston Engines By: Zbyszko Kazimierski; Jerzy Wojewoda. Externally Heated Valve Engine quantity

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A two-stroke, externally heated valve engine (EHVE) with a heater, a cooler and two blowers is simulated. The engine is entirely different from a typical Stirling engine. The pressure ratio p_{max} / p_{min} of its cycle is higher, but the engine volume and the mean value of the heat exchanger wall temperatures are the same. The power and efficiency of the EHVE and Stirling engines under the same maximum pressures are compared.

Comparison of the externally heated air valve engine and ...

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An external combustion engine (EC engine) is a heat engine where a working fluid, contained internally, is heated by combustion in an external source, through the engine wall or a heat exchanger.The fluid then, by expanding and acting on the mechanism of the engine, produces motion and usable work. The fluid is then cooled, compressed and reused (closed cycle), or dumped (open cycle).

External combustion engine - Wikipedia

Externally heated air engine combined with forced working gas flow (supercharging). □ Separate settling chambers allow for achieving stable and constant heat exchange parameters. □ Pressure drop in heat exchangers overcome by additional blowers. □ Reciprocating piston air engine, cam governing system, standard lubrication for externally ...

Heat exchanger operation in the externally heated air ...

Abstract. The mineral fuels used recently, i.e., oil and gas, will be soon exploited out. This paper presents an idea of the engine where any fuel or solar heat can be used as a source of energy. The proposed model is an externally heated, 2-stroke, valve engine (EHVE). This is a piston-type engine, entirely different from the well-known Stirling one, which is the best known example of such a solution.

Numerical model and investigations of the externally ...

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Externally Heated Valve Engine: A New Approach to Piston ...

Externally heated valve engine: a new approach to piston engines . By Zbyszko Kazimierski and Jerzy Wojewoda. Cite . BibTex; Full citation; Abstract. This book reports on a novel approach for generating mechanical energy from different, external heat sources using the body of a typical piston engine with valves. ...

Externally heated valve engine: a new approach to piston ...

The crucial role in the externally heated air valve engine is played by its heat exchangers which work in a closed cycle. These are: a heater and a cooler and they are subject to a numerical analysis in the paper.

Heat exchanger operation in the externally heated air ...

Externally Heated Valve Engine : a New Approach to Piston Engines. [Zbyszko Kazimierski; Jerzy Wojewoda] -- "This book reports on a novel approach for generating mechanical energy from different, external heat sources using the body of a typical piston engine with valves.

Externally Heated Valve Engine : a New Approach to Piston ...

When the engine is started, it gets heated up gradually hence causing the valve stem to expand. A valve tappet clearance is always provided to allow the expansion of valve stem and also other parts. This clearance value depends upon the length of the valve, its material and the operating temperature of the engine.

Valve Mechanism: How a Valve of Internal Combustion Engine ...

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