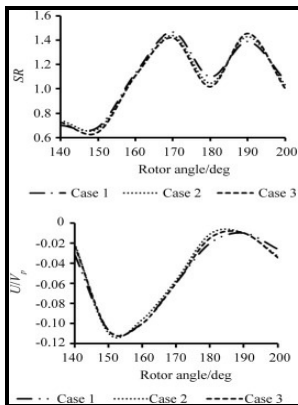


# Two-dimensional numerical study of the flow inside the combustion chamber of a motored rotary engine

Society of Automotive Engineers - Numerical Study on Flow Field in a Peripheral Ported Rotary Engine Under the Action of Apex Seal Leakage

Description: -



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Two dimensional flow.  
Rotary engines.  
Gas mixtures.  
Computational grids.  
Combustion chambers.  
Stratified flow.  
Rotary combustion engines.two-dimensional numerical study of the flow inside the combustion chamber of a motored rotary engine  
-  
NASA technical memorandum -- 87212.  
SAE technical paper series -- 860615.two-dimensional numerical study of the flow inside the combustion chamber of a motored rotary engine  
Notes: Microfiche. [Washington, D.C. : National Aeronautics and Space Administration], 1986. 1 microfiche.  
This edition was published in 1986



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Tags: #Cfd #modeling

IC

The purpose of this study is to present an experimental methodology and a numerical analysis to characterize the in-cylinder tumbling flow generated by a motored four-valve spark ignition single-cylinder optical engine. A simplified compensated circuit is shown in Fig. The profiles of turbulent length scale show that the maximum values corresponding to the Hcontour lines occur at the centre of all the combustion chambers.

## A Study of the Cycle

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The combustion model embodied in the KIVA-II was disabled, hence giving rise to cold flowsimulations. The cartesian coordinates of vertex i,j, k are  $x_{13k}$ ,  $Y_{sjk}$ ,  $z_{l,k}$ , which inChapter 4.

## Experimental and numerical simulation of charge motion in internal combustion engines

Weniger als 6% Abweichung wurde bei 8 mm Ventillhub festgestellt. The third method, which offers real promise for turbulenceenhancement in internal combustion engines is the formation of swirl and tumble motionsduring induction.

## Experimental and numerical simulation of charge motion in internal combustion engines

The turbulence intensity was also found to decay during compressionboth with and without swirl. For one numerical simulation of the flow ratio in them is therefore sufficient, in each case half to consider.

## **A Two**

In contrast to Equation 3. Initially the jet is very thin, approximately one third of a millimetre in thickness.

## **A Study of the Cycle**

The stronger the tumbling motion, the more turbulent kinetic energy is released during its break down and this release takes place later during compression relative to a weaker motion. NUMERICAL MODELLING 71 The advantages of the ICED-ALE method include its ability to resolve arbitrary confining boundaries, to have variable zoning for purposes of obtaining optimum resolution, to be almost Lagrangian for improved accuracy in problems where fully Lagrangian calculations are not possible and to operate with time steps many times larger than possible with explicit methods.

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