

Calculation of MHD Channel Flows

2.1. Introduction

The present stage of development of MHD energy conversion raises various new theoretical problems related to flow calculations. Previously (until about the end of 1960), most attention was concentrated on solving a broad class of problems in modeling, so as to investigate the principal physical phenomena in the channel, and on developing the foundations of engineering methods of calculating MHD channel flows. At the present time, the most important problems include improving the accuracy of engineering methods of calculating and numerically modeling real flows in the channel, in order to obtain data required in the design of various types of MHD generators. At the same time, the design of MHD generators frequently leads to a new class of problems that have not been previously analyzed by numerical modeling. Examples of such problems are various aspects of diagonal MHD channels and variational aspects of channel electrodynamics.

A useful approach in investigating electrodynamic problems in an MHD channel is based on that developed in applied magnetohydrodynamics, whereby the general system of equations is separated into electrodynamic and hydrodynamic parts. Solution of axial and transverse electrodynamic problems makes it possible to solve such practical problems as optimal structure configuration and design of loading schemes for segmented channels. Methods based on parametrization of numerical solutions and application of variational calculations are quite effective in such applications.

General, two dimensional problems of magnetohydrodynamics can be solved numerically, primarily in the inviscid approximation. The most interesting aspect is the investigation of the effect of channel design and loading schemes on the gasdynamic parameters. Important data are obtained about the influence of spatial gasdynamic effects on the overall electrical characteristics of the MHD generator.

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G. G. Chernyi



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