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In the engineering community, the turbulence modeling is highly evaluated as a mathematical tool indispensable for the analysis of real-world turbulent flow.

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In the physics community, attention is paid to the study of small-scale components of turbulent flow linked with the energy-dissipation process, and much less interest is shown in the foregoing transport processes in real-world flow.

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Equations. Pages 7-32.

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turbulence modelling from both the
conventional and statistical-theoretical
viewpoints. The mathematical structures
of primary turbulence models ...

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Modelling and Statistical Theory. By A.
YOSHIZAWA. Kluwer, 1998, 410 pp. ISBN
07923 52254. £139.50

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This dissertation employs the coarse-graining approach, commonly used as a modeling tool in the LES community, to analyze scale interactions in turbulent flows, following [1]. The main scientific

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contributions of this dissertation to the fields of hydrodynamic and magnetohydrodynamic (MHD) turbulence are: (1) Establishing necessary conditions for turbulent MHD flows to sustain cascades of ...

Hydrodynamic and magnetohydrodynamic turbulence

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Magnetohydrodynamic turbulence concerns the chaotic regimes of magnetofluid flow at high Reynolds number. Magnetohydrodynamics (MHD) deals with what is a quasi-neutral fluid with very high conductivity. The fluid approximation implies that the focus is on macro length-and-time scales which

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are much larger than the collision length
and collision time respectively.

Magnetohydrodynamic turbulence - Wikipedia

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af A. Yoshizawa som e-bog på engelsk til
markedets laveste pris og få den straks

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på mail. Turbulence modeling
encounters mixed evaluation concerning
its impor- tance. In engineering flow, th..

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particles in magnetohydrodynamic
turbulent channel flows at low magnetic

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Reynolds numbers. Int J Heat Fluid Fl 2011; 32: 365-377. [4] Vire A, Krasnov D, Boeck T, Knaepen B, Modeling and discretization errors in large eddy simulations of hydrodynamic and magnetohydrodynamic channel flows. J Comput Phys 2011; 230: 1903-1922.

Turbulent MHD Pipe Flow

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Methods and approaches that can be used for analyzing the hydrodynamic and magnetohydrodynamic turbulent flows are proposed. It is shown that the best methods to characterize the types of turbulent processes are the methods of statistical physics. Within the statistical approach the fractal analysis

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(determination of the fractal length

**Characteristics of the Turbulence
Processes in the ...**

The velocity profile of turbulent side layers in magnetohydrodynamic duct flows in a strong field can also be computed with the help of the model provided that the Hartmann layers are

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already laminar.

**Parallel Simulation of Turbulent
Magneto-hydrodynamic Flows.**

In fluid dynamics, hydrodynamic stability is the field which analyses the stability and the onset of instability of fluid flows. The study of hydrodynamic stability aims to find out if a given flow is stable

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or unstable, and if so, how these instabilities will cause the development of turbulence. The foundations of hydrodynamic stability, both theoretical and experimental, were laid most ...

Hydrodynamic stability - Wikipedia

Eq. (6) has the necessary property that it reduces to the hydrodynamic formula

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in the limit ($\beta \rightarrow \infty$), and agrees well with 3D simulations of super-Alfvénic MHD turbulence . Using Eq. (6), one can estimate M of a turbulent flow, given suitable approximations of σ_s , b , and β .

Hydrodynamic and magnetohydrodynamic simulations of wire ...

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1. Introduction. Accurate numerical simulations are an indispensable tool for an improved understanding of magnetohydrodynamic (MHD) turbulence, which plays a key role in a broad area of different research disciplines ranging from astro- and geophysical flows to industrial applications, where

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magnetohydrodynamic effects are used,
for example, in the production process
of steel.

Large eddy simulation of hydrodynamic and ...

Essentially, a description of these flows must encompass both the temporal and spatial evolution of the flows from their

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inception. Hydrodynamic instability will usually start from potentially infinitesimal spatial perturbations, will eventually transition to a turbulent flow, and then will reach a final state of a true multiscale problem.

**Turbulent mixing and transition
criteria of flows induced ...**

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A magnetic field imposed on a flow of an electrically conducting fluid can profoundly change flow behavior. We consider this effect for the situation of laminar-turbulent transition in magnetohydrodynamic duct, pipe, and channel flows with homogeneous magnetic field and electrically insulating walls.

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**Laminar-Turbulent Transition in
Magnetohydrodynamic Duct ...**

Turbulent duct flows in a liquid metal
magnetohydrodynamic power generator
- Volume 713 - Hiromichi Kobayashi,
Hiroki Shionoya, Yoshihiro Okuno

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metal magnetohydrodynamic ...

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Astronomy and Space Science Institute,
Hwaam-Dong, Yuseong-Gu, Daejeon
305-348, South Korea; jskim@kasi.re.kr
and Dongsu Ryu Department of
Astronomy and Space Science,

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Chungman National University, Daejeon
305-764, South Korea;
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**DENSITY POWER SPECTRUM OF
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Parallel Simulation of Turbulent Magneto-
hydrodynamic Flows Axelle Vire²,
Dmitry Krasnov¹, Bernard Knaepen , and

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Thomas Boeck¹ 1 Fakultät für
Maschinenbau, Technische Universität
Ilmenau P.O. Box 100565, 98684
Ilmenau, Germany E-mail:
{thomas.boeck, dmitry.krasnov}@tu-
ilmenau.de

Parallel Simulation of Turbulent Magneto-hydrodynamic Flows

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Hydrodynamic and magnetohydrodynamic simulations of wire turbulence: Authors: Fogerty, E Liu, B Frank, A Carroll-Nellenback, J Lebedev, S: Item Type: Journal Article: Abstract: We report on simulations of laboratory experiments in which magnetized supersonic flows are driven through a wire mesh.

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