

# The Hamilton-Type Principle in Fluid Dynamics: Fundamentals and Applications to Magnetohydrodynamics, Thermodynamics, and

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Angel Fierros Palacios

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## The Hamilton-Type Principle in Fluid Dynamics: Fundamentals and Applications to Magnetohydrodynamics, Thermodynamics, and Astrophysics

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#### **The Hamilton-Type Principle in Fluid Dynamics: Fundamentals and Applications to Magnetohydrodynamics, Thermodynamics, and Astrophysics** Angel Fierros Palacios

The book describes Fluid Dynamics, Magnetohydrodynamics, and Classical Thermodynamics as branches of Lagrange's Analytical Mechanics. The approach presented is markedly different from the treatment given to them in traditional text books. A Hamilton-Type Variational Principle as the proper mathematical technique for the theoretical description of the dynamic state of any fluid is formulated. The scheme is completed proposing a new group of variations regarding the evolution parameter.

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