



## Lagrange and Finsler Geometry: Applications to Physics and Biology (Paperback)

By -

Springer, Netherlands, 2010. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Since 1992 Finsler geometry, Lagrange geometry and their applications to physics and biology, have been intensively studied in the context of a 5-year program called Memorandum of Understanding , between the University of Alberta and AL1. CUZA University in Iasi, Romania. The conference, whose proceedings appear in this collection, belongs to that program and aims to provide a forum for an exchange of ideas and information on recent advances in this field. Besides the Canadian and Romanian researchers involved, the conference benefited from the participation of many specialists from Greece, Hungary and Japan. This proceedings is the second publication of our study group. The first was Lagrange Geometry. Finsler spaces and Noise Applied in Biology and Physics (1). Lagrange geometry, which is concerned with regular Lagrangians not necessarily homogeneous with respect to the rate (i.e. velocities or production) variables, naturally extends Finsler geometry to allow the study of, for example, metrical structures (i.e. energies) which are not homogeneous in these rates. Most Lagrangians arising in physics fall into this class, for example. Lagrange geometry and its applications in general relativity, unified field theories and relativistic...



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