

thermodynamical and dynamical structures pdf

Abstract: We consider an attraction-repulsion chemotaxis model coupled with the Navier-Stokes system. This model describes the interaction between a type of cells (e.g., bacteria), which proliferate following a logistic law, and two chemical signals produced by the cells themselves that degraded at a constant rate.

American Institute of Mathematical Sciences

Mammatus (mamma or mammatocumulus), meaning "mammary cloud", is a cellular pattern of pouches hanging underneath the base of a cloud, typically cumulonimbus rainclouds, although they may be attached to other classes of parent clouds. The name mammatus is derived from the Latin mamma (meaning "udder" or "breast"). According to the WMO International Cloud Atlas, mamma is a cloud supplementary ...

Mammatus cloud - Wikipedia

Non-equilibrium thermodynamics is a branch of thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described in terms of variables (non-equilibrium state variables) that represent an extrapolation of the variables used to specify the system in thermodynamic equilibrium.

Non-equilibrium thermodynamics is concerned with transport processes and with ...

Non-equilibrium thermodynamics - Wikipedia

Matej Balog, Ilya Tolstikhin, and Bernhard Schölkopf. Differentially private database release via kernel mean embeddings. In 35th International Conference on Machine Learning, Stockholm, Sweden, July 2018..

Abstract: We lay theoretical foundations for new database release mechanisms that allow third-parties to construct consistent estimators of population statistics, while ensuring that the ...

Machine Learning Group Publications - University of Cambridge

Lagrangian analysis is a powerful way to analyse the output of ocean circulation models and other ocean velocity data such as from altimetry. In the Lagrangian approach, large sets of virtual particles are integrated within the three-dimensional, time-evolving velocity fields.

Lagrangian ocean analysis: Fundamentals and practices

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