



Applications in Fluid Mechanics and Heat Transfer

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submissions:

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Message from the Guest Editors

The aim of this special issue is to bring together high-quality research papers that focus on the innovative and practical applications of mathematics in the fields of fluid mechanics and heat transfer. We welcome original research articles and reviews that showcase the latest advancements in the fields of applied mathematics, fluid mechanics, heat transfer, and related areas. Potential topics of interest include, but are not limited to application of mathematics in:

- fluid mechanics and heat transfer in industrial processes, such as heat exchangers, boilers, and refrigeration systems.
- phase change heat transfer, including melting, solidification, evaporation, and condensation.
- multi-phase flow, including the behavior of fluids with different densities and viscosities, and the effects of turbulence and mixing.
- optimizing the design and operation of energy and power generation systems.
- numerical methods for solving fluid mechanics and heat transfer problems.
- experimental studies in fluid mechanics and heat transfer.
- multiphysics and multiscale modeling of fluid mechanics and heat transfer.





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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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