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His expertise is in experimental heat transfer/fluid mechanics and the development of practical engineering correlations. Dr. Ghajar has made significant contributions to the field of thermal sciences through his experimental, empirical, and numerical works in heat transfer and stratification in sensible heat storage systems, heat transfer to ...

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[Heat and Mass Transfer: Fundamentals and Applications](#)

A heat exchanger is a system used to transfer heat between two or more fluids. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power stations, chemical plants, petrochemical plants, petroleum refineries, natural ...

[Heat exchanger - Wikipedia](#)

The Grashof number (Gr) is a dimensionless number in

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fluid dynamics and heat transfer which approximates the ratio of the buoyancy to viscous force acting on a fluid. It frequently arises in the study of situations involving natural convection and is analogous to the Reynolds number. It's believed to be named after Franz Grashof. Though this grouping of terms had already been in use, it wasn't ...

[Grashof number - Wikipedia](#)

Passive solar design refers to the use of the sun's energy for the heating and cooling of living spaces by exposure to the sun. When sunlight strikes a building, the building materials can reflect, transmit, or absorb the solar

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radiation. In addition, the heat produced by the sun causes air movement that can be predictable in designed spaces. These basic responses to solar heat lead to design ...

[Passive Solar Design – Sustainability](#)

From 1980 to 1982 he worked with Professor E.M.Sparrow as a visiting scholar at the Heat Transfer Laboratory of University of Minnesota. ... It demonstrates that LBFS-IBM can be well applied to simulate practical heat transfer and fluid flows. ... (XFVM) is proposed to solve the mechanical deformation of fractured rock mass. Therefore, the ...

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