Heat transfer in porous media

- Heat transfer in porous media involves the movement of heat within materials containing voids, such as rocks or foam
- There are three primary modes of heat transfer: conduction, convection, and radiation
- In porous media, these processes often occur simultaneously and are influenced by the properties of both the solid matrix and the fluid in the pores
- Understanding this phenomenon is crucial in fields like geothermal energy, insulation technology, and chemical engineering

Practical example: Nuclear reactors

- Heat transfer in porous materials is critical in nuclear reactors, particularly in the filtration and control of radioactive gases and fluids
- Porous materials in reactors help manage heat by allowing coolant fluids to pass through them, effectively reducing the reactor's temperature
- The nature of the porous structure facilitates a large surface area for heat exchange, enhancing the reactor's safety and efficiency
- This principle ensures that the reactor operates within safe thermal limits, preventing overheating and potential meltdowns



Principles Of Heat Transfer In Porous Media

Massoud Kaviany

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