



Cálculo de la conductividad y difusividad térmicas en nanofluidos

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Condition: New. Publisher/Verlag: Editorial Académica Española | En la actualidad se conocen varios métodos que permiten determinar la conductividad y difusividad térmicas de los nanofluidos. Sin embargo, no todos convergen en el mismo resultado final. Existe discrepancia en los resultados, pues, algunos autores reportan que las nanopartículas aumentan sustancialmente la capacidad térmica de los fluidos, mientras que otros no evidencian aumento significativo. La presente obra tiene como objetivos: desarrollar un modelo que reproduzca, al menos aproximadamente, el comportamiento espacio-temporal de la temperatura $T(x, y, z, t)$ en la muestra, exponer las condiciones de validez de la ecuación de difusión del calor para fluidos, discutir los resultados obtenidos y la forma de comprobar la validez del modelo de Hamilton-Crosser en el caso de nanofluidos. A continuación, se propone la resolución de las ecuaciones de la física matemática como alternativa para calcular las propiedades térmicas de los nanofluidos, en tanto que, este es un método que ofrece la ventaja de que, a priori, no necesita conocer las características térmicas ni geométricas de los materiales constituyentes. | Format: Paperback | Language/Sprache: spa | 52 pp.



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