



Research Article

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Thermal analysis of extended surfaces using deep neural networks

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Abstract: The complexity of thermal analysis in practical systems has emerged as a subject of interest in various fields of science and engineering. Extended surfaces, commonly called fins, are crucial cooling and heating mechanisms in many applications, such as refrigerators and power plants. In this study, by using a deterministic approach, we discuss the thermal analysis of conduction, convection, and radiation in the presence of a magnetic force within an extended surface. The present study develops a deep neural network to analyze the mathematical model and to estimate the contributions of each dimensionless model parameter to the thermal dynamics of fins. The deep neural network used in this study makes use of a feedforward architecture in which the weights and biases are updated through backward propagation. The accuracy of the neural network model is validated using results obtained from a spectral-based linearization method. The efficiency rate of the extended surfaces is computed using the neural network and spectral methods. The results obtained demonstrate the accuracy of the neural network-based technique. The findings of this study in relation to the novel mathematical model reveal that utilizing materials with variable thermal conductivity enhances the efficiency rate of the extended surface.

Keywords: neural network approximation, spectral methods, fins, convection, conduction, magnetic

Nomenclature

α	cross-section area of the fin (m^2)
B_0	magnetic field intensity (T)
C_p	specific heat capacity ($J/kg \cdot K$)
F	temperature (K)
F_∞	temperature (ambient) (K)
g	acceleration due to gravity (m/s^2)
H	magnetic parameter
i	internal heat generation (W/m^3)
J	conduction intensity
k	thermal conductivity ($W/m \cdot K$)
k_a	thermal conductivity (ambient)
K	permeability (m^2)
L	length of the fin (m)
M	thermo-geometric parameter
n	multi-boiling heat parameter
N_f	temperature ratio
N_p	porosity parameter
N_r	thermal radiation parameter
P	perimeter of the fin (m)
Q	heat generation parameter
u	velocity in the porous fin (m/s)
V	velocity vector (m/s)
w	width of the fin (m)
x	Cartesian coordinate
Z_f	fin efficiency rate
Greek symbols	
α_b, α_0	thermal coefficient (1/K)
β	thermal expansion coefficient (1/K)
γ	heat transfer coefficient ($W/m^2 \cdot K$)
θ_b	heat transfer coefficient (base)
ϵ	emissivity coefficient

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