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apply knowledge of
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methods to the

problems of heat
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addition to

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expected to be familiar

with vector algebra,

linear algebra, ordinary
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Downloadable (with restrictions)! The main task of a combined gas-water heat exchanger (CGHE) in a waste heat recovery system is to transfer heat from flue gas to boiler backwater. A spray tower and an indirect contact heat exchanger are key components of the CGHE. Analytical solutions of the heat

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and mass transfer
process for the overall
system are presented
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has been developed for the inverse heat conduction problem, when the temperatures are known at two positions in a finite body or at one position in a semi-infinite body.

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Recently, Chen and his colleagues proposed an analytical solution by using the shifting

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function method for the heat conduction in a slab with time-dependent heat transfer coefficient at one end. Yatskiv et al. studied the thermostressed state of cylinder with thin near-surface layer having time-dependent thermophysical properties.

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of Heat Conduction
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[31,66,68,77,100,136,1

37,149] The Fourier

law of conduction is q

$$= -k\nabla T \quad (1.2)$$

where q

is the heat flux vector,

$T(x)$ is the temperature

field, and $k(T)$ is the

coefficient of thermal

conductivity. 1.2.1

Governing equation $\frac{\partial T}{\partial t} = \alpha \nabla(k \cdot \nabla T) + g \quad (1.3)$

1.2.2 Fins Fin

effectiveness η_f : This is

the ratio of the fin heat

transfer rate to the

rate that would be if

the fin were not there.

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According to Luikov, the integral transform method is the most suitable approach in analytically solving nonhomogeneous linear heat conduction problems, not in principle solvable through separation of variables, including the case of time-dependent nonhomogeneous boundary conditions.

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