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Of a “medium ”
component.

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18 RADIATIVE

HEAT TRANSFER

and $Q_d = 280 \text{ W m}^2$

$2.545 \times 10^{-8} \text{ m}^2$

$\times 0.9 = 6.41 \mu\text{W}$

(c) The energy

hitting detector

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remains the same
and, therefore, so
does the intensity
emitted from the
spot:

$$I_{b12}(T_a)(\text{actual}) = I_{b12}(T_p = 1200\text{K})(\text{perceived})$$

or, if we assume
the blackbody
intensity over the
detector range can
be approximated by
the value at $1.1 \mu\text{m}$,

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$$\begin{aligned} & e^{C_2/T_a} - 1 \\ & e^{C_2/T_p} - 1, \\ & \text{leading to } T_a = C_2 \\ & \ln\{1 + \\ & [e^{C_2/T_p} - 1]\} = \\ & 14,388 \mu\text{mK} \\ & 1.1 \mu\text{m} \ln\{1 + 0.7[\\ & e^{14,388/1.1 \times 1200} \\ & - 1]\} \text{ or } T_a \dots \end{aligned}$$

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6, 9 through 11, 13,
14 and 18 are
almost complete;
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covered in that
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Calculation of radiative heat transfer between groups of object, including a 'cavity' or 'surroundings' requires solution of a set of simultaneous equations using the radiosity method. In these calculations, the geometrical configuration of the

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problem is distilled to a set of numbers called view factors, which give the proportion of radiation leaving any given surface that hits another specific surface.

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emission of
radiation from the

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filament peaks.

Solution The visible range of the

electromagnetic

spectrum extends

from 0.4 to 0.76

micro meter. Using

Table 12-2: ()

0.05271 0.76 2500

1900 . 0.053035

0.4 2500 1000 .

0.000321 2 1 2 2 1

1 - = = = = =

= =

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$\frac{T_m}{mK} = \frac{mK}{T_m}$ which means
only about 5% of
the radiation
emitted by the
filament of the light

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of the references.

The results show that the least square spectral element method has good accuracy for solving multidimensional radiative heat transfer problems in semitransparent graded index media.

Solution of radiative

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Problems
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The solution to the
equation of
radiative transfer is

then: $I_{\nu}(s) = I_{\nu}(s_0) e^{-\int_{s_0}^s \kappa_{\nu}(s') ds'}$
 $+ \int_{s_0}^s B_{\nu}(T(s')) e^{-\int_{s'}^s \kappa_{\nu}(s'') ds''} ds'$

$$I_{\nu}(s) = I_{\nu}(s_0) e^{-\int_{s_0}^s \kappa_{\nu}(s') ds'}$$

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$$\int_{s_0}^s (s_0) e^{-\tau} \nu \{ (s_0, s) \} + \int_{s_0}^s (s_0) e^{-\tau} \nu \{ (s_0, s) \} B_{\nu}(T(s')) \alpha_{\nu}(s') e^{-\tau} \nu \{ (s', s) \} ds'$$

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method. Some are crucial to the solution accuracy ...

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3. Analytical Solution 3.1 Conduction.

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particles vibration. Regarding most of the newtonian fluids, it is usually much smaller than convection (this ratio is represented by the Rayleigh Number). For steady-state, conduction is quantified by the Fourier ' s (or Newton ' s heat)

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