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

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10 RADIATIVE HEAT TRANSFER. 1.9 When a metallic surface is irradiated with a highly concentrated laser beam, a plume of plasma (i.e., a gas consisting of ions and free electrons) is formed above the surface that absorbs the laser's energy, often blocking it from reaching the surface.

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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 problem is distilled to a set of numbers called view factors, which give the proportion of radiation ...

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The most common approach to solve the radiative transfer problem in dispersive media by solving the radiation transfer equation (RTE). Many methods of the RTE solution have been developed [20-24 ...

(PDF) Radiative Transfer Equation and Solutions

For radiative transfer between two objects, the equation is as follows: $\phi_q = \epsilon \sigma F (T_a^4 - T_b^4)$, where ϕ_q is the heat flux, ϵ is the emissivity (unity for a black body), σ .

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