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PHYSICS (54)

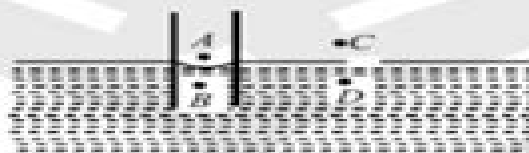
SOLUTIONS

SECTION -I

Q.1 (i)

Explanation of capillary action: Suppose that a capillary tube is dipped in a liquid like water which wets the capillary. Let us consider the situation before the movement of water inside the capillary. The shape of the surface in the capillary is concave. Let us consider four points A, B, C, D such that (i) A be just above the curved surface inside the capillary. (ii) B is just below inside the capillary. (iii) C is just above the plane surface outside the capillary. (iv) D is just below the plane surface outside the capillary. P_A, P_B, P_C, P_D be the pressures at these points.

(1/2)



(1/2)

As the pressure on the concave side of the liquid surface is greater than convex sides $P_A > P_B$ (1)

As the pressure is same on the both side of a plane surface $P_C = P_D$ (2)

Now $P_A = P_C =$ atmospheric pressure (3) (1/2)

From relation (1), (2) and (3) $P_D > P_B$.

But B and D are same horizontal level in liquid, where pressure at D is greater than pressure at B. Therefore liquid cannot remain in equilibrium and it flows in to the capillary and rises above B till the pressure at B and D becomes equal. This is the reason why there is rise of liquid inside the capillary tube. (1/2)

(ii) E_λ be emissive power of black body for wavelength λ .

$E_\lambda d\lambda$ be energy density between wavelength λ and $\lambda + d\lambda$

The graph of $E_\lambda d\lambda$ vs λ is called black body spectrum.



(1)

(1)

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Brian Shadwick



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