

leonard eyges classical electromagnetic pdf

James Clerk Maxwell FRS FRSE (13 June 1831 – 5 November 1879) was a Scottish scientist in the field of mathematical physics. His most notable achievement was to formulate the classical theory of electromagnetic radiation, bringing together for the first time electricity, magnetism, and light as different manifestations of the same phenomenon. Maxwell's equations for electromagnetism have ...

James Clerk Maxwell - Wikipedia

Green's function) $\nabla^2 \phi = -\rho/\epsilon_0$ is a partial differential equation. The Green's function $G(\mathbf{r}, \mathbf{r}') = 1/|\mathbf{r} - \mathbf{r}'|$ is the solution to $\nabla^2 G = -\delta(\mathbf{r} - \mathbf{r}')$. The Green's function for the Poisson equation is $G(\mathbf{r}, \mathbf{r}') = 1/|\mathbf{r} - \mathbf{r}'|$. The Green's function for the Helmholtz equation is $G(\mathbf{r}, \mathbf{r}') = e^{-ik|\mathbf{r} - \mathbf{r}'|}/|\mathbf{r} - \mathbf{r}'|$. The Green's function for the wave equation is $G(\mathbf{r}, \mathbf{r}') = \delta(t - |\mathbf{r} - \mathbf{r}'|/c)/|\mathbf{r} - \mathbf{r}'|$.

Maxwell's distribution of molecular velocities

Aportes a la ciencia. James Clerk Maxwell consideró que las partículas en un gas tienen velocidades diferentes y que pocas partículas tienen velocidades bajas, la mayoría tienen velocidades altas y solo unas cuantas se mueven con velocidades muy altas; pero muchas tienen una velocidad parecida a la que se obtendría si se calculara el promedio de todas las velocidades.

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