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### **Green's Theorem In Electromagnetic Field Theory**

If A Sheet Of Perfect Electric Conductor (PEC) Is Placed Along The Surface  $S$ , Or Any Other Type Of Boundary Condition That Allows No. 3 Power To flow Out Of The Volume  $V$ , Then The Right-hand Side Of (14) Vanishes, And We Have  $\int_V \mathbf{E} \cdot \mathbf{E} \, dV = \int_S \mathbf{E} \cdot \mathbf{E} \, dS$  ... May 6th, 2024

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(3) The Theory I Propose May Therefore Be Called A Theory Of The Electromagnetic Field, Because It Has To Do With The Space In The Neighbourhood Of The Electric Or Magnetic Bodies, And It May Be Called A Dynamical Theory, Because It Assumes That In That Space There Is Matter In Motion, By Which The Observed Feb 11th, 2024

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