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2 First Notions of Gauge Invariance. Roughly speaking, the gauge principle states: If a physical system is invariant with respect to some global (space- time independent) group of continuous transformations, G , then it remains invariant when that group is considered locally (space- time dependant), that is $G \hat{=} G(x)$.

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The Dawning of Gauge Theory: American Journal of Physics

3. The Idea of Gauge Invariance It was observed long ago that Maxwell's equations were invariant to a certain change in the electromagnetic 4-potential A ; that is, if we define a new potential given by $A^\wedge = A + \nabla f$, where ∇f is the gradient of some scalar field $f(x)$, then the electromagnetic field tensor, defined as $F = \nabla_j A_i - \nabla_i A_j$, is unchanged.

WEYL'S THEORY OF THE COMBINED GRAVITATIONAL

numbers on the gauge pick up the pace. They ticked by sluggishly, almost as if they were doing it just to annoy me. It wasn't bright out a typical drizzly day in Forks, Washington but I still felt like a spotlight

was trained on me, drawing attention to the delicate ring on my left hand. At

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Hermann Weyl and the

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