
Variational Problems In Differential Geometry

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$f = -g \frac{m}{r^2}$ g is the gravitational constant, r is the distance between the particles and \hat{r} is a unit vector directed from m to m' m establishes a force field, which we call h . we write the force field as $h = -g \frac{m}{r^2} \hat{r}$ when there is a distribution of mass particles m_i , the force field is the vector sum of the fields of each particle.

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