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On Linear Variational Surface Deformation Methods
Condition, Linear Methods Are Robust: When Appropriate Boundary Conditions Are Used, The Quadratic Energy Has A Unique Global Minimum; Moreover, Most Methods Are Formulated In Such A Way That The Resulting Deformed Surface Is A Smooth Function Of The Modeling Constraints, Thus A Slight Perturbation Of The

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Functional Attain A Maximum Or Minimum Value. Variational: Used Of All Extremal Functional Questions. • Mathematically, This Involves finding Stationary Values $Y(x)$ Of Integrals Of The Form $I = \int_a^b F(y, y', x) dx$ • I Has An Extremum Only If The Euler-Lagrange Differenti

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Variational Methods Applied To The Particle In A BoxConsider A Particle That Is Confined To Motion Along A Segment Of The X-axis (a One Dimensional Box). For

Simplicity, Imagine The Boundaries Of The Box To Lie At $X=0$ And $X=L$. We Will Further Define The Potential Energy Of The Particle To Be Zero Inside The Box ($V=0$ When 0