

The Calculus Of Variations

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A Branch Of Mathematics That Is A Sort Of Generalization Of Calculus. Calculus Of Variations Seeks To Find The Path, Curve, Surface, Etc., For Which A Given Function Has A Stationary Value (which, In Physical Problems, Is Usually A Minimum Or Maximum). Mathematically, This Involves Finding Stationary Values Of Integrals Of The Form $I = \int_a^b f(y, y', x) dx$. Apr 16th, 2019

Fundamental Lemma Of Calculus Of Variations - Wikipedia

In Mathematics, Specifically In The Calculus Of Variations, A Variation δf Of A Function F Can Be Concentrated On An Arbitrarily Small Interval, But Not A Single Point. Accordingly, The Necessary Condition Of Extremum (functional Derivative Equal Zero) Appears In A Weak Formulation (variational Form) Integrated With An Arbitrary Function δf . The Fundamental Lemma Of The Calculus Of Variations ... Jan 11th, 2019

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