

Calculus of Variations - The Case of One Variable

- The integral

$$I = \int_a^b f(y, \dot{y}, x) dx \quad (1)$$

has an extremum if the Euler-Lagrange differential equation is satisfied

$$\frac{\partial f}{\partial y} - \frac{d}{dx} \left(\frac{\partial f}{\partial \dot{y}} \right) = 0 \quad (2)$$

- Find the shortest plane curve joining two points A and B, i.e. find the curve $y = y(x)$ for which the functional

$$\int_a^b \sqrt{dx^2 + dy^2} = \int_a^b \sqrt{1 + y'^2} dx \quad (3)$$

achieves its minimum.

Calculus Of Variations Solved Examples

Jin-Ying Zhang



Calculus Of Variations Solved Examples:

Calculus Of Variations Solved Examples Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Calculus Of Variations Solved Examples**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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