

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

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Decoding **Calculus Of Variations Solved Examples**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Calculus Of Variations Solved Examples**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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