

# The Calculus of Variations

- A **functional** maps a function to a value, e.g.  

$$G[y] = \int_a^b F(y, y', x) dx$$
- The calculus of variations can be used to extremize functionals.
- The **variation** of  $G$  is defined to be:  

$$\delta G = G[y+\delta y] - G[y] = \int_a^b \delta y \left( \frac{\delta G}{\delta y} \right) dx$$
definition of functional derivative  

$$= \int_a^b \left[ \frac{\partial F}{\partial y} \delta y + \frac{\partial F}{\partial y'} (\delta y)' \right] dx$$
to first order  
integrate by parts  

$$= \left[ \frac{\partial F}{\partial y'} \delta y \right]_a^b + \int_a^b \delta y \left[ \frac{\partial F}{\partial y} - \frac{d}{dx} \left( \frac{\partial F}{\partial y'} \right) \right] dx$$

Fixed endpoints  $\therefore \delta y(a) = \delta y(b) = 0$

- The functional is **stationary** when  $\delta G = 0$ , resulting in the **Euler-Lagrange equation**

$$\Rightarrow \frac{\partial F}{\partial y} - \frac{d}{dx} \left( \frac{\partial F}{\partial y'} \right) = 0$$

$\hookrightarrow$  in the special case where  $F$  has no  $x$ -dependence,

$$\frac{\partial F}{\partial x} = \frac{\partial F}{\partial y} \frac{dy}{dx} + \frac{\partial F}{\partial y'} \frac{dy'}{dx} + \frac{\partial F}{\partial x} = \frac{\partial F}{\partial x} + y' \frac{\partial F}{\partial y} + y'' \frac{\partial F}{\partial y'}$$

$\hookrightarrow$  sub in EL to give  $\frac{dF}{dx} = \frac{\partial F}{\partial x} + \frac{d}{dx} \left( y' \frac{\partial F}{\partial y'} \right)$

$\hookrightarrow$  so when  $\frac{\partial F}{\partial x} = 0$ :

$$F - y' \frac{\partial F}{\partial y'} = \text{const}$$

*Beltrami identity*

## Fermat's principle

- Fermat's principle states that light chooses a path of stationary time, or equivalently, stationary optical path length:

$$P = \int_a^b \mu(x) dl$$
refractive index

- For general 2D motion  $P(y, z) = \int_{z_0}^{z_1} \mu(y, z) \sqrt{1 + y'^2 + z'^2} dz$   
 $\hookrightarrow$  apply EL for both  $y(z)$  and  $z(z)$ .
- For sound waves, we need an expression for the acoustic path length.

## Hamilton's principle

- Lagrangian mechanics examines the motion of a point in configuration space, described by generalized coordinates  $\{q_i\}$
- The **action**  $S$  of a path is a functional of the Lagrangian  $L = T - V$ :

$$S = \int_{t_0}^{t_1} L(\{q_i\}, \{\dot{q}_i\}, \dots; t) dt$$

- Hamilton's principle states that the path in configuration space extremizes  $S$  ('least action')

$$\Rightarrow \frac{\partial L}{\partial q_i} - \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{q}_i} \right) = 0 \quad i=1, \dots, N$$

$\hookrightarrow$  if  $L$  does not explicitly depend on time,

$$L - \sum_{i=1}^N \dot{q}_i \frac{\partial L}{\partial \dot{q}_i} = \text{const}$$

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**M Mark**



## **Calculus Of Variations Lecture Notes Uni Leipzig:**

The Top Books of the Year Calculus Of Variations Lecture Notes Uni Leipzig The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Calculus Of Variations Lecture Notes Uni Leipzig : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Calculus Of Variations Lecture Notes Uni Leipzig : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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