

For simplicity we may drop the subscripts q, p and write the Poisson bracket as $[F, G]$

$$\text{As, } F = F(q_i, p_i, t) \text{ ——— ②}$$

The total time derivative of the function F can be written as:

$$\frac{dF}{dt} = \sum_i \left(\frac{\partial F}{\partial q_i} \dot{q}_i + \frac{\partial F}{\partial p_i} \dot{p}_i \right) + \frac{\partial F}{\partial t} \text{ ——— ③}$$

We know that Hamilton's equations of motion are:

$$\dot{q}_i = \frac{\partial H}{\partial p_i} \quad \text{and} \quad \dot{p}_i = - \frac{\partial H}{\partial q_i} \text{ ——— ④}$$

Using eqn. ④ in eqn. ③ we get:

$$\frac{dF}{dt} = \sum_i \left(\frac{\partial F}{\partial q_i} \frac{\partial H}{\partial p_i} + \frac{\partial F}{\partial p_i} \times - \frac{\partial H}{\partial q_i} \right) + \frac{\partial F}{\partial t} \text{ ——— ⑤}$$

Using ④ in ⑤ we get,

$$\frac{dF}{dt} = [F, H] + \frac{\partial F}{\partial t} \text{ ——— ⑥}$$

From eqn. ⑥ it is clear that F is a constant of motion if

$$\frac{dF}{dt} = 0 \Rightarrow [F, H] + \frac{\partial F}{\partial t} = 0 \text{ ——— ⑦}$$

Now if function F does not depend on time then $\frac{\partial F}{\partial t} = 0$ then condition for F to be constant of motion becomes:

$$[F, H] = 0$$

Proofs And Fundamentals Solutions

Daniel F McAuley



Proofs And Fundamentals Solutions:

Proofs And Fundamentals Solutions 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 much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Proofs And Fundamentals Solutions**," 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 shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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